

LUMBER

MILL WORK

MACHINERY

WIRE &amp; FENCING

PIPE &amp; FITTINGS

HIGHEST GRADE  
PRODUCTS USUALLY  
AT LESS THAN COST  
OF MANUFACTURE

CAPITAL STOCK & SURPLUS  
\$ 1,000,000.00

GENERAL  
MERCHANDISE  
FROM SHERIFFS  
RECEIVERS AND  
MANUFACTURERS SALES

FURNITURE &amp; RUGS

ROOFING

PLUMBING

HARDWARE

STRUCTURAL IRON

# CHICAGO HOUSE WRECKING CO

CHICAGO, U. S. A.



## OUR BINDING GUARANTEE

We guarantee absolute and complete satisfaction. There is no half way about this guarantee. Every purchase you make from us will be exactly as represented and you will be satisfied in every way, or we will make such just amends as are within our power.

Our descriptions represent straight, honest facts. There is nothing colored about them. We are not regularly in any one line of merchandise. Our business is of a varied character. It is necessary for us to give you descriptions in the coldest manner possible. We have no intention of overdrawing facts or playing upon your imagination.

If you buy any goods from us and they are not satisfactory to you in every way and manner, we will either take back such merchandise and refund the full purchase price, or we will make satisfactory adjustment to you. We have faith in the honesty and integrity of our patrons and we will demonstrate it to your entire satisfaction.

We want at all times to enjoy your fullest confidence and we will gain it by giving you an honest, square deal. Bear that in mind always and we are sure we will get to know one another much better.

While this business is owned by a large corporation, its individual officers and officials take a deep and active interest in each and every customer. We treat every man as though he was the only one we do business with. That is the relationship we are anxious to maintain at all times with you.

So you can purchase with absolute confidence and without hesitation or fear, knowing full well that every dollar's worth of goods shipped you is covered by a guarantee so binding that no possibility of evasion exists for us. If the goods are not satisfactory we will take them back. Nothing can be fairer and we mean every word we have said.

If upon receipt of your goods you find anything contrary to our representations or not satisfactory, write us the facts in the case. If you positively cannot use the merchandise in question, ask for instructions for its return and we will furnish you with such necessary shipping instructions. Immediately upon receipt of the goods in question your money will be refunded in full, or the articles will be exchanged for you subject to your pleasure in the matter.

## INDEX TO DEPARTMENTS

As a means of ready reference the following index will quickly direct you to the various departments represented in this catalog. A complete index will be found in the middle of this book. Note the colored pages. If you are looking for some manufactured article not found in this catalog, write us. The chances are we have it in stock.

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## OUR REFERENCES

The Chicago House Wrecking Co. has a capital stock and surplus in excess of one million dollars (\$1,000,000.00). We are incorporated under the laws of the State of Illinois. This company has been in existence for over sixteen years. Its responsibility is unquestioned. We refer to any Commercial Agency; to any Publisher of any paper anywhere; to any Bank or Banker; to any Express Company; or you can write direct to our depository, the Drovers Deposit National Bank of the Union Stock Yards, Chicago, whose public letter is reproduced herewith. In writing to this Bank we kindly ask you to enclose a stamped envelope for their reply.

### DROVERS DEPOSIT NATIONAL BANK

UNION STOCK YARDS.

CAPITAL & SURPLUS \$1,000,000.

CHICAGO, ILL.

#### TO WHOM IT MAY CONCERN:

We take pleasure in testifying to the responsibility of the CHICAGO HOUSE WRECKING COMPANY who is a customer of this bank and who are incorporated under the laws of the State of Illinois, and have a fully paid up capital and surplus of \$1,000,000.

They are the leading establishment of their kind in the world, occupying large quarters and employing a great number of people.

The Officers are personally known to us, and we know them to be first-class business men who will carry out their agreements. We recommend them to the business public, feeling sure that any contracts or dealings they may enter into will be entirely satisfactory.

Yours truly, DROVERS DEPOSIT NATIONAL BANK,

## NOTICE ORDER BLANK

On the last page of this catalogue you will find a conveniently arranged order blank, which can easily be detached. Kindly tear it out, and use when sending us an order. Additional blanks and self-addressed envelopes are gladly furnished you.



## Extracts from Famous Writers—Continued

and we went out through a big mailing room where scores of stenographers were busy answering correspondence, through a transportation room where managers were "routing" shipments over various railroads and through a printing plant where the firm's catalogue, its "Book of Plans" for house-builders, its "Hardware News," etc., are turned out and next to the big dining rooms where the office employees luncheon largely at the expense of the concern, we found rows of rows of cabinets filled with bright brass keys ready for final shaping, desk push buttons, speaking tubes, etc., so carefully packed that the entire stock seemed as good as new—and yet purchased by the House Wrecking Company at such a low figure that for years to come it will be able to under sell the key market.

### WE MADE A TRIP THROUGH THE PLACE.

Thence we went through the place. It's too big to describe in detail. It resembles a World's Fair—and here you find the mortal remains of two World's Fairs—valves used at St. Louis and so big they are not to be found in stock elsewhere, piping of every size, the turn-stiles, the coin receiving devices and the steel structural work including the sole surviving relic of the famous "Ferris Wheel"—a steel shaft so big that nobody will buy it, not even the great Bessemer steel works and which, fifteen years after the Fair is over, lays outside the farther line of buildings of the housewrecking company—to be broken up into "scrap" some of these days, along with the scores of Cottage Grove cable cars which are too delapidated to be sold for suburban use or employed as chicken coops or play houses.

### BUYING STREET CARS FOR CHICKEN COOPS.

"Chicken coops and play houses?"  
"Yes. We have sold several for chicken coops and a man bought one the other day as a play house for his children."

"How much?"  
"Hundred dollars," he replied, as we sat down in the rear seat of a former "grip" car and I viewed the crowded array of some three hundred open and closed cars awaiting their fate.

"Highest they bring?"  
"Some three hundred. They cost twelve hundred new. Sixty-five dollars is the lowest we sell them at."

"Track?"  
"Miles of it."

"Cheap?"  
"About twenty-two dollars a ton."

Then we gazed on piles of old iron and steel heaped high as a two story building, the best part of everything having been sorted out, those Cottage Grove cables, for instance, making fine steel rope for various purposes, and after that we went through a region where pipe in size from smallest to largest was being strained, sent through a "rattler" that cleans the outside of the pipe by abrasion, while metal brushes do ditto to the inside, ragged ends are sawed off, the new ends are properly "threaded" and the pipe is sold for half its original cost, "though it is good as new and we can't get enough of it," said the man from the office. "We just got in twenty-five carloads of it and could sell twice as much as we can get hold of. The fact is the tremendous demand for gas, water, and other kinds of pipe is using up new pipe faster than it is made and creates a keen call for second hand pipe."

### SECOND-HAND PIPE, ROOFING STRUCTURAL STEEL, GOOD AS NEW.

He showed me the ends of pipe, of structural steel, roofing, etc., to demonstrate that under the surface the metal is as bright and flawless as ever.

In the renovating of steel sheets for roofing and partitions the idea is to make it look same as new. After the sorting and straightening out process, the corrugating, the brick—and the "V"—stamping machines get in their work and automatic painting machines put on a first coat to be followed by a hand-painted exterior, the plant where this is done being about as big as any two or three factories of the same order anywhere in the world.

"Sell these for new?"  
"No. If anything is second hand we sell it as such. If it is new we sell it as new. Here, for instance are several car-loads of 'Rubberized Galvo,' ready-to-lay roofing. We need lots of it and we buy it new; direct from the factory at a price that enables us to undersell the market."

### THEY HAVE CAREFUL INSPECTION IN THE SHIPPING DEPARTMENT.

We saw them at work in the shipping departments—a big place where the job varies from careful crating of breakables to placing whole engines on the flat cars. "Careful inspection protects both us and customer. Two inspections are given all plumbing goods."

"What's your cheapest bath tub?"  
"Six dollars."  
"Most expensive?"

"Here's a solid porcelain that cost \$75. We sell it for a third of that. It was slightly below perfection—a back corner knocked off, an inch or so only and we make that good as new. But we buy it and sell it cheap—much less than it cost to make. We sell a whole bath-room outfit—tub, lavatory and closet, with the fittings and piping, for \$25.00 up to \$150.00."

"Many farmers buying bath room outfits?"

"Thousands of them. They want the most up-to-date homes they can get—and when they come to us we enable them to get everything they want at prices which have completely outfitted many a farm home that wouldn't otherwise be more than half fitted or furnished. This system of ours distributes a vast amount of valuable production that would otherwise remain unsold. We think our name a misnomer. Instead of House Wreckers we are House-Builders, Home-Makers, we preserve instead of destroy." And then we spent half an hour interestingly with hardware in which the company is a complete establishment all by itself; wire, in which it carries fencing small enough to restrain infant chicks and large enough to hold a herd of elephants, and has on hand a whole boat load of ordinary wire salvaged from the bottom of Lake Michigan (for the Wrecking Company does not appear to confine its rescue work merely to dry land) but not looking as if it had ever been outside the wire-factory, so unrustured was it; grindstones, insulation, machinery from one horsepower gasolines up to thousand-horsepower Corliss kind; centrifugal pumps, motors, dynamos, wood pulleys, radiators, complete heating apparatus; vault doors that cost four or five hundred going for fifty and all spic and span with new paint; windmill towers at twelve dollars up; pneumatic water supply outfits and the air pressure kind, at prices that make any man able to have his whole house piped for water no matter where he lives; belting of all kinds and in which the company seems to command a world-wide trade, carrying a stock that permits any belt-using concern to wire for a piece of belting or a whole belt with certainty of the order being shipped next train.

### "BUT THIS ISN'T THE C. H. W. COMPANY'S CATALOGUE."

"But Mercy—this isn't the C. H. W. Company's catalogue. It takes that whole book—464 pages of description, pictures and prices—to tell the story. It gives the data of the whole twenty-two departments and opens with a certification from the Drovers Deposit National Bank that the Chicago House Wrecking Company is the leading establishment of the kind in the world—has a million dollar capital and surplus and is officered by men known to the bank to be worthy every confidence. It closes with a chapter on lumber in which specialty it seems to be competing with its oriental rug department for supremacy, the lumber department being the biggest thing it has out-doors and the rug department the biggest indoors. The rugs are far more restful for a fellow who has been all over that forty acres of ground and floor space, especially when he can sink back into the depths of a forty-five dollar Mission easy chair that sells for seventeen fifty and hear the story of how the company can out-quality and undersell the most aristocratic concerns on State street in both rugs, carpets, tapestries and furniture."

### THE AUTOMOBILE PUBLIC SEEKS THE HOUSE WRECKING COMPANY.

This trade comes from all over the country—all over the continent. The company ships lumber—lumber, mind you, clear up to the Canadian Northwest Territories, being able to sell it in competition with the native product grown in the Canadian Rockies a thousand miles nearer the Canada-west market.

Something has been said about the company opening a department store in the Loop District—but why should it?

It has a great advantage in being off by itself where its customers can confine their undivided attention to its offerings and do their selecting apart from the rush and turmoil of the retail district—and in fact it has already so much of an attraction to a large number of Chicago's most discriminating shoppers that they prefer to seek its great airy, wholesome rooms where things are displayed with space enough to do them justice than to mingling in the jostling hysteria of downtown. As a matter of mercantile wisdom, why isn't it better for a great big place like this to remain as it is, a distinct establishment among the enterprises of this center city of the continent, serving a continent and not merely a single city?

### NEEDLES AND ELEPHANTS! By R. A. Feeley, Journalist of Philadelphia.

Can you mentally picture five or six of the biggest department stores you have ever seen, all moulded into one, with the elimination, perhaps of a few of the dress goods departments; then with a dozen big machinery shops added; two or three great warehouses, a rope walk, the biggest plumb-

ing supply house you know of, and two or three immense old iron and steel establishments? If you can grasp the potential possibilities of such a combination, you will have a faint idea of the enterprise the Chicago House Wrecking Company is conducting to-day.

One day the manager of the Company received a letter from a resident of the Pacific Coast. "Can you send me an elephant? I understand a person can buy anything of the Chicago House Wrecking Company from a needle to an elephant."

Absurd as that sounds, it was not so far away from the truth.

Anyone wanting a real live elephant can be accommodated on short notice by the Chicago House Wrecking Company who knows just where to put their hands upon any article not already in stock and who know—which is perhaps even more important—just how to get it at a good percentage below the regular commercial price.

One of the Chicago House Wrecking Company's chief activities consists in relieving people who have "elephants" on their hands.

An Exposition is brought in, being, runs its brief career of brilliancy, closes and then remains a thing of useless buildings and clap-trap for the stockholders to contend with and lie awake o' nights to worry regarding the turning of staff, lumber, metal, old exhibits and the thousand and one paraphernalia of a great Fair into actual money.

When Chicago had its World's Fair the "Elephant" that was left was truly a white elephant. Everyone remembers that this wonderful exposition was known as "The White City."

The Chicago House Wrecking Company made its first ten strike right here.

It took that "White Elephant" off the hands of its owners, ripped the thing to pieces, sorted the lumber, the metal, the furnishings and all the other confused conglomerate, resold it to these in the market for the various materials, and virtually opened a way to the making of something from what would at first seem to be worse than nothing.

The Buffalo Exposition followed, and here, too, the Chicago House Wrecking Company did some wonderfully clever things in reclaiming building materials in such a way as to make their employment in other operations a matter of both economy and convenience.

So in more ways than one it is true that the Chicago House Wrecking Company knows how to take care of "Elephants."

In a "Hay Stack" eleven acres broad you would think it would take a mighty big needle not to get lost entirely.

But you can find everything that you want in the Chicago House Wrecking Company's plant and do it in a few minutes after you set out on your journey from the main office to the building or enclosure which contains the particular sort of thing you desire—that's what System does.

You can find an anchor weighing several tons and you can find a little brass bowl from Egypt just as quickly.

The man who has the general direction of this wonderful establishment is backed up by an immense corps of clerks and systematizers and in a few moments he can tell you just how many enamel bath tubs of the first grade he can sell you—if you happen to be a contractor with a hotel to erect, or he can turn you over to an oriental rug expert who will show you a Teheran, a Tabriz, a Serapi or any other rug you want—and that, whether you wish to pay \$25 or \$10,000.

Not long ago a big New York oriental rug importer found it impossible to meet his bills and after an unavailing struggle he was forced to the wall. The Chicago House Wrecking Company's managers went to New York City and bought up all the stock which ran into hundreds of thousands of dollars, but they had the ready money, and bale after bale of almost priceless rugs were secured at half price or less and that means real half price and not the sort that you so often read about in advertisements.

This represents only a small detail of the actual furniture, rug, and carpet business of this marvelous concern. Very few furniture houses in the country have the floor space which the Chicago House Wrecking Company occupies for its furniture department alone. Even here the organization's marvelous capacity for making use of things, no matter how "unreal" or impossible, was manifested.

The building in which all the furniture and rugs are stored was an old railroad depot with an immense arched roof of steel and iron.

The Chicago House Wrecking Company tore the depot down, took its roof apart, moved the whole thing to its plant and set it up again to become an up-to-date furniture store—one of the lightest in the country.

When you visit Chicago, don't fail to see this wonderful place. No matter what you may need you can save from a quarter to a half from the lowest market prices—and just as a "Place of Wonders" it is worth going miles to see.



# GENERAL TERMS

## Terms

Our terms are uniformly spot cash. By that we mean we require a remittance in part or in full with all orders. Do not take any exception to this rule; it isn't intended as a slur on you; it's one of the means that enables us to sell our goods below any one else on earth. We never have any losses. When we sell you an article the profit is exactly what we estimated. Not like mercantile houses who sell goods on time; they have a certain percentage of loss each year and even if you are prompt pay you help to balance the loss they sustain from customers who fail to pay their bills. We do not ask you to do something that we wouldn't do. We buy for spot cash: as an instance, we cite the fact that we purchased The World's Fair of St. Louis for \$450,000.00 and paid it in cash; that means before we got the goods.

On all new material quoted in this catalog we will ship C. O. D., provided a deposit of 25 per cent accompanies the order, balance C. O. D. Now understand there are exceptions to this rule: for instance, if you live at a point where there is no Freight Agent we cannot ship C. O. D., but require remittance in full in advance. That's explained more fully under the head of our "Freight Rates," page 9 to 12.

## How to Order:

In sending us your order use every precaution to make it so plain that there will be no question of our misunderstanding you. By doing that you will eliminate a large percentage of trouble that might occur afterwards. Always write on one side of the sheet. Do not try to save paper. Write your name, town, county, state, R. F. D., or Post Office Box so plain that anyone can readily make it out. Wherever possible use our printed Order Blanks, which we are glad to furnish in any quantity you desire. If you use our Order Blank fill it out completely. You will find at the top we ask numerous questions; see that each one is properly answered. If you haven't an Order Blank handy then follow out this course: Give us the number of the catalog from whence you are making your selection. If the material has previously been quoted you by letter give us the date of the letter, the initials of our correspondent and stenographer, which you will find at the head of the letter. In all cases give us the number of the article, the page in our catalog and the price per piece and extended. As near as you can add up the total of your order.

Advise us exactly how to ship the goods, that is by what Railroad Company, Boat Company or Express Company. Tell us whether there is a freight agent at your shipping point. If there isn't, your order must be paid for in full and sufficient money sent to prepay the freight charges. You can approximate the amount and if it is short we will advise you, if over we will remit the difference to you promptly.

Let us know whether we may substitute as near as possible in event of our being sold out of some article in your order. We want to fill your order right, that's our whole object and you can help us to accomplish this.

It's wise to keep a supply of our Order Blanks on hand at all times. Also ask for some of our Return Envelopes. If you haven't any handy when you send in the order be careful to write the correct address on the envelope. Do not forget our address.

**Chicago House Wrecking Co.**

**35th and Iron Streets**

**CHICAGO, ILL.**

## Our Shipping Facilities

Our shipping facilities are the best to be had. We have railroad tracks running to all of our ware houses and load direct from our shipping room, so that we can send a car from out our shipping office right to your point, even through it be in California, without the necessity of having it reloaded. Of course, you will appreciate what that means.

We carefully pack all goods. We want them to come to you in proper condition for the purpose they are intended for, and we do this by carefully packing and loading our merchandise. Of course, in a case of less than car-load shipment we can only pack the goods right and load them in a mixed car.

We are located on the most famous Railroad System in the world, namely, The Chicago Belt Line. We connect with every traffic line entering and leaving the city of Chicago.

We employ automobile trucks in moving goods to all parts of the city, so that we are in direct connection also with steam boat lines and every other freight transportation.

Our Traffic Department is efficient in every way. They correctly solve all railroad matters for you. The routing of your goods is faithfully observed so that the least possible delay exists from the time when goods are packed until they reach you.

We are also careful to take care of your every want in the matter of freight rates and all goods are billed with that in view. Very often ignorance on this point entails a loss that could have been averted. Our province is to serve our customers' best interests at all times and under all conditions. You will appreciate this fact fully and if you are a patron of ours now you will understand how carefully we observe your every interest.

In the shipment of lumber we take great pains to load so that the material can be handled easiest when it reaches destination. We are proud of our carloads of lumber; they are the finest that leave Chicago.

As an idea of the extent of our traffic, we have often handled 100 complete carloads in a single day. Do not think we are only after carload orders; we relish the small ones as well as the big ones; "Great trees from little acorns grow."

## Do Not Hesitate to Ask Us Questions

Write us for all the information that you want. We are glad to enlighten you; that's our business. We employ over 100 stenographers and have a large force of corresponding clerks. Our Information Bureau is always at your service.

In each of our lines we employ expert service; for instance, in the Constructing Department we have architects, draftsmen and structural iron engineers who are able to answer you on any point. We are anxious to do everything within our power so that our offer will become perfectly clear to you. In our Plumbing and Heating Department we have expert engineers who have devoted all their lives to the subject; they can probably tell you a great deal more than you could learn locally as to your particular needs. Even if we do not eventually secure your order we will be glad to lend you every co-operation; it's here for that purpose. After a while you will come and say that you will give us part of the business and that will be satisfaction sufficient. We do not expect to sell everyone who writes us, but we will make an honest endeavor to secure the order if meritorious offers and honest descriptions count. When we back low prices with fair, square dealings it is bound to win out, and the truth of this is to be seen in our wonderful institution, so whether you have bought from us or not write us for information; ask us questions on any pertinent topic connected with the goods you need.



# GENERAL TERMS---Contd.

## C. O. D. Shipments

We urge you to avoid C. O. D. shipments. It is a constant cause of trouble to our customers and offers you no possible advantages. Our liberal, broad binding guarantee protects you so amply that you need have no fear or hesitation in sending money in advance. If you send us more money than your order amounts to it will be returned. If you receive any articles not satisfactory we will adjust it. Our Capital Stock and Surplus is sufficient to make you safe.

When you order goods C. O. D. it means Cash on Delivery. Now where goods are shipped by freight it necessitates our attaching Bill of Lading to a draft and drawing on you through some Bank; if there isn't a Bank it means we have got to draw through the Express Agent—we cannot draw through the Freight Agent. Please bear that in mind. Railroad Agents are not supposed to collect money in that way; it's either the Bank or the Express Company. There is expense attached to it every time. Banks do not perform their work without being paid for it; neither do the Express Companies. That adds expense which is entirely unnecessary and uncalled for. The expense for the return of the money is paid by you.

## Express Shipments

We advise against making express shipments except where weight is not over 20 pounds, because the expense of shipping by express is so much greater than by freight. In all cases where goods are ordered shipped by express we require remittance in full in advance. The Express Companies insist on our guaranteeing all charges on such shipments; that is, if for any reason the shipments are refused at destination the Express Company would return them to us and hold us for charges in both directions, and that is our reason for asking for remittance in full.

Where an order is received without any specific instructions as to how shipment is to be made, we use our best judgment, always in the interest of our customer, and if it is more profitable to ship by express than by freight it will be shipped that way.

## Shipments Direct from Factory

In many instances we purchase from manufacturers merchandise in large quantities and arrange to allow such stock to remain at the point of purchase. This gives us an opportunity to sell the goods at much lower prices than if they were to be shipped on to us at Chicago, and we give our customers the benefit of it, therefore you will find many articles in this catalog that are shipped direct from factories at certain points. This bears more especially to articles in the furniture line. There are also some general articles, such as tanks, scales, etc., shown in various parts of this catalog that are also shipped direct from the factory. On application we will advise the approximate freight charges to destination on any of these goods.

## Freight Prepaid Prices

All quotations in this book are sold NET CASH F. O. B. CARS CHICAGO and not subject to any further discount, and all merchandise is offered subject to prior sale. On application we will quote freight prepaid prices on any article listed in this catalog. On two special lines in this catalog you will find we are quoting "Freight Prepaid Prices" to certain states. Do not confuse this quotation with any other section of our catalog; it refers only to the new steel roofing, siding and ceiling, a full and complete explanation of which is given in that section of this catalog. It has nothing whatever to do with any other quotations.

## Club Orders

If it is possible for you to make up an order for a carload of material it will give you much added advantage. Perhaps you can get your neighbors to "club" in with you, thus enabling you to make up a large shipment. The necessary weight of a carload shipment is explained on pages 9 to 12, covering "Freight Information." By shipping a carload we can send it through to destination without the railroad company ever touching the contents again, therefore would advise, wherever you can, to make up carload orders, even though it necessitates your clubbing together. We will load the goods in such a way so that each order can easily be distinguished.

## As to Delayed Shipments

We readily recognize the virtue of shipping goods promptly and our constant aim is to perfect our organization so as to "promptly deliver the goods," but conditions arise that sometimes prevent us from executing our good intentions.

When you send us an order display as much patience as you possibly can. Recollect it takes time for the order to reach our hands. Upon receipt of the order we send you an acknowledgment postal card, giving you the number of your order and the date of its receipt here. Allow the natural amount of time to elapse from our receipt of your order in our hands until the Forwarding Company receives it; then if you think there is an unnatural delay drop us a card, giving us your order number, its date and the amount of your remittance and we will give you prompt advice in the matter.

## Our Location and How to Reach Us

We are situated on 35th Street three miles from the center of the city and about 35 minutes ride by street car. Our plant is located midway between Halsted St. and Ashland Ave. The 35th Street surface cars stop before our main entrance. We extend from 35th Street to 37th Street on the south and from Iron Street to Laflin Street on the west. About as large a city institution as one can expect to find. Our place can be reached from the center of the city by any of the south bound cars. When you pay your fare ask the conductor for a transfer, get off at 35th street and then travel west; or take the South Side Elevated train as far as 35th Street and then the surface street car directly to our place. Any conductor or policeman knows our location. We extend you a cordial invitation to visit us whenever convenient. It makes no difference whether you come with buying thought or whether out of idle curiosity; we want you to come. It's the best way we know of to advertise our business. No matter how elaborate our descriptions may be, or how graphic the story of our immensity, you fail to properly grasp the situation until you've been here, then you will exclaim with hundreds of thousands of past visitors "We had no idea what an enormous institution you had." Do not forget, our story is not overdrawn; in fact, if anything we are overly modest. We do not want you to gain the impression that our story is founded on any imagination. We deal always in facts, so come and see us and we will extend to you the right hand of good fellowship. We will give you a guide that will show you the things of most interest, or if you want we will allow you to roam at will. We promise you that when you pay the visit you will not have wasted your time, but you will become more fully impressed with our importance and with the opportunity we offer the Bargain Buying Public to purchase staple merchandise and supplies at much lower than the usual asking prices.

## Mistakes

If in your dealings with us you are confronted with a mistake we ask you to be patient. Remember your own faults. We have yet to meet "that perfect man." It's only human to make mistakes. If you want to show your manly nature then follow out the conduct that you would like were you the man who made the mistake and we the ones who had suffered. Write us the calm, cold facts in the case. Give us your order number, the date of your shipment, if you paid for the merchandise, the date of your remittance and do everything else that you can to make the transaction plain to us. Then tell us just what your grievance is in plain, every-day English language. Do not resort to any abusive language in telling us the facts; reserve that until later on. We promise you that if you have had any injustice done you it will be properly righted. That's the way we expect to hold your trade and that's the way we expect to increase our business. If after you have written us all the facts in the case and we still refuse to give you justice you will have sufficient time to launch on us an avalanche of abuse.



# A General Synopsis of Our Business

Below we outline the various departments of our institution. For general convenience we have divided our business into 24 distinct departments, each one with an able General Manager and with a staff of competent assistants. The magnitude of our business is best shown in the description which follows:

## Department No. 1

**FURNITURE, RUGS, ETC.** Our Furniture Department embraces everything in household goods—carpets, rugs, linoleums; office furniture—desks, chairs, filing cabinets, etc. Our display room occupies a space of 500x150 feet. Every single article carried in this department represents strictly brand new merchandise bought by us at SHERIFFS', RECEIVERS' and MANUFACTURERS' SALES.

## Department No. 2

**WIRE.** Consists of all articles in the wire line distinguished from fencing, such as fence wire—smooth and barbed; telephone wire, and wire for the manufacture of various articles. All the wire is new; some of it is strictly first class, but is sold for just what it is—no attempt at deception in any part of our business. See our wire pages in this catalog.

## Department No. 3

**BELTING, HOSE, ETC.** Over \$50,000 worth of high grade stock is constantly carried in this department. We are in shape to fill your order quickly. There will be no delay in getting any belting that you may be in a hurry for. This department embraces rubber and leather belts, packing and garden hose.

## Department No. 4

**HARDWARE.** That means everything that is needed in building hardware, heavy hardware, etc. Our stock is absolutely complete and there is not an article manufactured in this line but what we can furnish.

## Department No. 5

**PLUMBING MATERIAL.** We can furnish every single article needed in installing plumbing in any building. Everything in this department is absolutely brand new. We do not offer any second hand plumbing material for sale. We buy our goods for this department at various RECEIVERS' and MANUFACTURERS' SALES.

## Department No. 6

**IRON PIPE.** We conduct the largest business in the United States on overhauled pipe. Practically our entire stock of pipe has previously been used, but it is all put in first class condition. In this department we also carry a stock of brand new galvanized and black pipe for gas, water and other particular purposes. Our overhauled pipe is good enough for all general uses.

## Department No. 7

**STEEL AND IRON COVERING.** Includes everything in corrugated and other irons and steel for general roofing, siding and ceiling purposes. We manufacture our own corrugated iron.

## Department No. 8

**MACHINERY.** Most of the material carried in this line is overhauled and rebuilt rigs, but that doesn't mean that they have any less value than new rigs. A great many customers prefer thoroughly overhauled engines to new ones—they know what they can do; it's a question about the new ones. You are safe in writing us for anything in the machinery line.

## Department No. 9

**ROPE.** A complete stock is carried in this department of wire rope and cable; also have manila, sisal and other ropes; also everything in rope clips, thimbles, etc. We can splice to length and can give immediate service on your requirements.

## Department No. 10

**MILLWORK.** That means doors, windows and all necessary interior and exterior trim. This department carries as large a stock as any jobbing house, anywhere. All our orders for regular stock material can be promptly executed.

## Department No. 11

**SHAPING, PULLEYS, ETC.** A complete department in position to furnish every requirement in mill staples; that means pulleys, shafting, hangers, couplings, boxes, etc., etc. Our specialty is "EMERGENCY ORDERS." If you have a breakdown, send us the order; give us the privilege of filling in overhauled material, or new, if unable to furnish the former.

## Department No. 12

**BOILERS AND SMOKESTACKS.** That means steam boilers. We have them from the smallest to the largest. Most of our stock in this department represents overhauled material. An accurate description is furnished and you are fully informed as to every detail of the articles we are offering for sale. We can furnish anything needed in Smokestacks.

## Department No. 13

**READY ROOFING.** In this department we carry a complete stock of rubber surface and tarred roofing felts; also lining, such as red rosin and the like.

## Department No. 14

**ELECTRICAL.** We include under this heading dynamos, generators, transformers, incandescent lamps, copper wire, telephones, switchboards and all sorts of electrical supplies. Our stock of these goods is constantly changing. A great percentage represents material secured by us in connection with some large dismantling contract. When we have it in stock we can save you from 30 to 75 per cent.

## Department No. 15

**SAFES AND VAULT DOORS.** Most of our safes are new ones that have been built specially to order for us.

The majority of our vault doors are overhauled and secured from large dismantling companies. Our stock is necessarily changing, and in order to keep yourself posted, would advise that you write us for our Special Vault Door List from time to time.

## Department No. 16

**BRASS GOODS.** Valves, bibbs, cocks, brass fittings and everything in connection with brass goods, that means for steam, water, gas and oil. We have both new and overhauled material in this department. Our stock is a very large one and you are safe in sending us your order. We can supply any requirement.

## Department No. 17

**HEATING APPARATUS.** Includes Steam and Hot Water Heating Plants complete; embraces radiators, both new and overhauled; heaters, hot air furnaces, registers and everything in hot air heating; in fact, as complete a heating department as is to be found anywhere.

## Department No. 18

**STRUCTURAL IRON.** Beams, channels, angles, rails, complete steel buildings; everything needed in structural material—iron and steel rods, cast iron columns, wrought iron columns; shapes to order. A special stock list issued from time to time.

## Department No. 19

**TANKS.** Large storage tanks ranging in size from 4,000 to 100,000 gallons; in other words, tankage of all sorts. This list changes from time to time, and we would advise that you write us memorandum of your requirements. Undoubtedly we can furnish what you need, and at a saving.

## Department No. 20

**CEMENT BLOCK MACHINERY.** This is a special new department recently installed. We will improve it from time to time. We propose to furnish you every single article needed in the manufacture of cement blocks and buildings. Additional literature besides that which you will find incorporated in this catalog will be issued shortly. Keep posted. Write us what you need.

## Department No. 21

**FITTINGS AND VALVES.** Everything from the smallest  $\frac{1}{4}$ " coupling to a 24" gate valve. New fittings and valves as well as overhauled ones. One of the most interesting departments of our large plant. A constant change in this department necessitates new lists from time to time.

## Department No. 22

**LUMBER.** That's a big enough word to tell all the facts. We can furnish anything needed in lumber, every bit of which is absolutely brand new; nothing second-hand or overhauled in this department.

## Department No. 23

**MISCELLANEOUS SUPPLIES.** In our wonderful operations we secure a multitude of odds and ends—maybe a wagon or a piano, or perhaps some odd tools or something different than we have ever had before. We put it all together in one interesting department and issue special lists showing articles on hand.

## Department No. 24

**WIRE FENCING.** This includes poultry fencing, hog fencing and cattle fencing. We can furnish at all times every size needed and for every purpose. All material in this department is new.







MINNESOTA							NORTH CAROLINA							TENNESSEE								
Min. Charge	1	2	3	4	5	6	Min. Charge	1	2	3	4	5	6	Min. Charge	1	2	3	4	5	6		
Is the third class rate																						
Albert Lea	.60	.50	.40	.25			Newbern	Note C	1.13	.94	.74	.56	.45	.35	*Bristol	.84	.72	.55	.39	.33		
Duluth	.65	.55	.44	.28			Orad.	Note C	1.26	1.09	.86	.62	.53	.41	*Chattanooga	1.11	.98	.75	.59	.52	.40	
Faribault	.60	.50	.40	.25			Roswell	Note C	1.28	1.09	.86	.62	.53	.41	Columbia	Note B	1.02	.85	.69	.55	.47	
Grand Rapids	.98	.82	.66	.44			Rocky Mount	Note C	1.28	1.09	.86	.62	.53	.41	Covington	Note B	1.02	.85	.69	.55	.47	
Hutchinson	.62	.53	.45	.30			Washington	Note C	1.12	.93	.74	.55	.45	.35	Fayetteville	Note B	1.23	1.08	.90	.73	.64	
Mankato	.65	.55	.43	.27			Willington	Note C	1.17	.98	.75	.56	.45	.35	Franklin	Note B	.87	.76	.62	.49	.41	
Minneapolis	.60	.50	.40	.25			NORTH DAKOTA							Gallatin	Note B	.91	.78	.65	.53	.46	.40	
Moorehead	1.14	.95	.76	.53			Bismark	Is for 100 pounds	1.58	1.32	1.05	.74			Humboldt	Note B	.95	.78	.65	.53	.46	
Northfield	.60	.50	.40	.25			Devils Lake	Third Class Rate	1.50	1.27	1.01	.72			Jackson	Note B	1.03	.85	.70	.57	.42	
Rochester	.57	.47	.37	.24			Dickinson		1.87	1.58	1.28	.96			Knoxville	1.11	1.11	.95	.79	.62	.53	
Saint Paul	.60	.50	.40	.25			Fargo		1.14	.95	.76	.52			Memphis	.85	.85	.65	.55	.43	.37	
Winona	.60	.42	.33				Grand Forks		1.21	1.01	.81	.58			Morristown	1.34	1.34	1.18	.99	.80	.68	
							Jamestown		1.37	1.14	.91	.63			Nashville	.73	.73	.63	.50	.38	.31	
							Lisbon		1.25	1.04	.83	.58			Pulaski	1.19	1.18	1.02	.82	.70	.61	
							Wahpeton		1.09	.91	.73	.50			Shelbyville	Note B	1.08	.93	.77	.63	.55	.48
							Williston		1.99	1.66	1.36	1.01			Trenton	Note B	.95	.80	.66	.54	.49	.40
														Tullahoma	Note B	1.11	.96	.80	.66	.57	.49	
														Union City	Note B	.83	.68	.55	.44	.35	.30	
														Winchester	Note B	1.15	1.00	.84	.69	.59	.50	
														*Official Classification n.								
<b>MISSISSIPPI</b>							<b>OHIO</b>							<b>TEXAS</b>								
Aberdeen	Note B	1.25	1.02	.82	.70	.57	.48	Akron	.41	.41	.35	.26	.18	.15	Austin	Note C	1.67	1.45	1.24	1.12		
Brookhaven	Note B	1.37	1.11	.93	.77	.64	.56	Ashland	.44	.44	.38	.29	.19	.17	Beaumont	Note C	1.67	1.45	1.24	1.12		
Greenville	1.10	1.10	.90	.75	.58	.47	.41	Cambridge	.44	.44	.38	.29	.19	.17	Belton	Note C	1.67	1.45	1.24	1.12		
Greenwood	Note B	1.16	.95	.78	.65	.55	.49	Canton	.41	.41	.35	.26	.18	.15	Brownsville	Note C	1.98	1.75	1.58	1.47		
Guilford	1.10	1.10	.90	.75	.58	.47	.41	Cincinnati	.40	.40	.34	.25	.17	.15	Cleburne	Note C	1.67	1.45	1.24	1.12		
Jackson	1.13	1.13	.90	.75	.58	.47	.41	Cleveland	.41	.41	.35	.26	.18	.15	Dallas	Note C	1.67	1.45	1.24	1.12		
Lebanon	Note B	1.28	1.16	.95	.78	.65	.55	Dayton	.40	.40	.34	.25	.17	.15	Denison	Note C	1.67	1.45	1.24	1.12		
Macon	Note B	1.25	1.02	.82	.70	.57	.51	Delaware	.41	.41	.35	.26	.18	.15	El Paso	Note C	1.67	1.45	1.24	1.12		
Natchez	1.10	1.10	.90	.75	.53	.47	.41	East Liverpool	.45	.45	.39	.30	.21	.18	Fort Worth	Note C	1.67	1.45	1.24	1.12		
Port Gibson	Note B	1.19	1.24	1.03	.82	.68	.59	Hamilton	.40	.40	.34	.25	.17	.15	Gainesville	Note C	1.67	1.45	1.24	1.12		
Tupelo	Note B	1.43	.94	.78	.66	.53	.45	Lancaster	.44	.44	.38	.29	.19	.17	Galveston	Note C	1.67	1.45	1.24	1.12		
Vicksburg	1.10	1.10	.90	.75	.58	.47	.41	Mansfield	.40	.40	.34	.25	.17	.15	Houston	Note C	1.67	1.45	1.24	1.12		
Winona	Note B	1.25	1.02	.82	.70	.57	.48	Marletta	.45	.45	.39	.30	.21	.18	Laredo	Note C	1.67	1.45	1.24	1.12		
Yazoo	Note B	1.16	.95	.78	.65	.55	.49	Massillon	.41	.41	.35	.26	.18	.15	Orange	Note C	1.67	1.45	1.24	1.12		
														Portsmouth	.45	.45	.39	.30	.21	.18		
														Sandusky	.40	.40	.34	.26	.18	.15		
														Springfield	.40	.40	.34	.26	.18	.15		
														Toledo	.87	.87	.87	.87	.87	.87		
														Zanesville	.44	.44	.38	.29	.19	.17		
<b>MISSOURI</b>							<b>OKLAHOMA</b>															
Aurora	.55	.90	.77	.55	.39		Ardmore	Note C	1.60	1.37	1.15	1.01			Eureka	2.41	3.33	2.83	2.35	1.92		
Carthage	.60	.94	.94	.60	.45		Duncan	Note C	1.57	1.34	1.12	.96			Logan	1.98	2.85	2.40	1.98	1.60		
Chillicothe	.45	.80	.65	.45	.32		Durant	Note C	1.60	1.37	1.15	1.01			Mt. Pleasant	2.23	3.10	2.61	2.16	1.75		
Clinton	.50	.82	.72	.50	.37		El Reno	Note C	1.50	1.29	1.07	.87			Ogden	1.98	2.85	2.40	1.98	1.60		
Columbia	.37	.63	.49	.37	.26		Enid	Note C	1.50	1.29	1.08	.87			Park City	1.98	2.85	2.40	1.98	1.60		
Independence	.45	.80	.65	.45	.32		Fort Sill	Note C	1.60	1.37	1.15	1.01			Provo	1.98	2.85	2.40	1.98	1.60		
Jefferson City	.42	.71	.58	.42	.29		Guthrie	Note C	1.50	1.29	1.07	.87			Salt Lake	1.98	2.85	2.40	1.98	1.60		
Joplin	.60	.94	.94	.60	.45		Hartshorne	Note C	1.40	1.20	.95	.74										
Kansas City	.45	.80	.65	.45	.32		Hobart	Note C	1.60	1.37	1.15	1.01										
Kearney	.40	.67	.40	.67	.40		Kingsfisher	Note C	1.50	1.29	1.07	.87										
Lexington	.45	.80	.65	.45	.32		Lawton	Note C	1.60	1.37	1.15	1.01										
Macon	.45	.80	.65	.45	.32		McAlester	Note C	1.40	1.20	.95	.74										
Maryville	.45	.80	.65	.45	.32		Muskogee	Note C	1.35	1.20	.90	.69										
Mexico	.37	.62	.49	.37	.26		Norman	Note C	1.50	1.29	1.07	.87										
Moberly	.37	.63	.49	.37	.26		Oklaoma	Note C	1.50	1.29	1.07	.87										
Poplar Bluff	.55	.77	.66	.55	.45		Okmulgee	Note C	1.40	1.20	.95	.74										
*Saint Louis	.28	.43	.35	.28	.22		Pawhuska	Note C	1.33	1.14	.88	.67										
Sedalia	.50	.75	.61	.42	.29		Ponca	Note C	1.46	1.24	.90	.78										
Springfield	.82	.72	.50	.37			Purcell	Note C	1.50	1.29	1.07	.87										
Trenton	.45	.80	.65	.45	.32		Shawnee	Note C	1.50	1.29	1.07	.87										
<b>MONTANA</b>							<b>OREGON</b>															
Butte	Note A	2.85	2.40	1.98	1.60		Tulsa	Note C	1.35	1.20	.90	.70										
Great Falls	Note A	2.70	2.29	1.87	1.51		Freight Rates furnished with quotation s.							Alexandria	.72	.72	.62	.47	.32	.27		
Helena	Note A	2.85	2.40	1.98	1.60									Berkley	.72	.72	.62	.47	.32	.27		
Livingston	Note A	2.75	2.31	1.91	1.54									Covington	.72	.72	.62	.47	.32	.27		
Missoula	Note A	2.96	2.51	2.05	1.67									Fredericksburg	.72	.72	.62	.47	.32	.27		
Red Lodge	Note A	2.65	2.24	1.84	1.48									Harrisonburg	.72	.72	.62	.47	.32	.27		
Walkerville	Note A	2.85	2.40	1.98	1.60									Lynchburg	.72	.72	.62	.47	.32	.27		
														Newport News	.72	.72	.62	.47	.32	.27		
<b>NEBRASKA</b>														Norfolk	.72	.72	.62	.47	.32	.27		
Columbus	1.15	.95	.72	.53										Petersburg	.72	.72	.62	.47	.32	.27		
Falls City	.80	.65	.45	.32										Portsmouth	.72	.72	.62	.47	.32	.27		
Fremont	.85	.70	.49	.36										Richmond	.72	.72	.62	.47	.32	.27		
Grand Island	1.31	1.11	.83	.62										Roanoke	.72	.72	.62	.47	.32	.27		
Lincoln	.85	.70	.49	.36										<b>WASHINGTON</b>								
Nebraska City	.80	.65	.45	.32										Freight rates furnished with quotation s.								
Norfolk	1.15	.95	.72	.53										<b>WEST VIRGINIA</b>								
North Platte	1.58	1.36	1.10	.86										Bluefield	.84	.84	.72	.55	.39	.33		
Omaha	.80	.65	.45	.32										Charleston	.45	.45	.39	.30	.21	.18		
Plattsmouth	.80	.65	.45	.32										Charlestown	.72	.72	.62	.47	.32	.27		
Tecumseh	.85	.70	.49	.36										Clarksburg	.50	.50	.43	.33	.23	.20		
														Fairmont	.50	.50	.43	.33	.23	.20		
<b>NEVADA</b>														Grafton	.50	.50	.43	.33	.23	.20		
Carson City	3.35	4.54	3.98	3.47	3.02									Huntington	.45	.45	.39	.30	.21	.15		
Elko	3.10	4.73	3.10	3.48	2.97									Martinsburg	.72	.72	.62	.47	.32	.27		
Goldfield	2.22	5.55	4.95	4.15	3.38									Morgantown	.50	.50	.43	.33	.23	.20		
Reno	3.10	4.29	3.73	3.22	2.77									Parkersburg	.45	.45	.39	.30	.21	.15		
Virginia City	3.35	4.69	4.13	3.52	3.07									Wheeling	.45	.45	.39	.30	.21	.15		
<b>NEW HAMPSHIRE</b>														<b>WISCONSIN</b>								
Freight Rates furnished with quotation s.																						
<b>NEW JERSEY</b>																						
<b>NEW MEXICO</b>																						
Freight Rates furnished with quotation s.																						
<b>NEW YORK</b>																						
Albany	.72	.72	.63	.48	.34	.29	Pittsboro	.73	.73	.63	.48	.33	.28	Appleton	.43	.36	.29	.20				
Amsterdam	.72	.72	.63	.48	.34	.29	Pottstown	.73	.73	.63	.48	.33	.28	Ashland	.65	.55	.44	.28				
Auburn	.60	.60	.52	.40	.28	.24	Reading	.73	.73	.63	.48	.33	.28	Beaver Dam	.40	.32	.27	.20				
Brooklyn	.75	.75	.65	.50	.35	.30	Seranton	.73	.73	.63	.48	.33	.28	Beloit	.37	.30	.24	.18				
Dunkirk	.45	.45	.39	.30	.21	.18	Shamokin	.73	.73	.63	.48	.33	.28	Eau Claire	.60	.50	.40	.25				
Hornellsville	.56	.56	.48	.37	.26	.22	Sharon	.44	.44	.38	.29	.19	.17	Fond du Lac	.40	.33	.28	.20				
Ithaca	.60	.60	.52	.40	.28	.24	Shenandoah	.73	.													



	WEST	SOUTH	EAST	ILLINOIS		WEST	SOUTH	EAST	ILLINOIS		WEST	SOUTH	EAST	ILL.
<b>A</b>					Less than 1/2 inch, loose					Riveted				2
Air Compressors	1	3	2	2	Over 1/2 inch, loose.					Cast or wrought				4
Angle Iron	4	6	4	4	Chairs:					Cupboards	1 1/2	1 1/2	1 1/2	1 1/2
Anvils	4	5	4	4	Opera	2	1	1	2	Cut-off Saws	1	3	1	1
Art Squares	1	1	1	1	Folding	D 1	1	1	2	Cutting Machines	1	3	1	1
Asbestos Covering	3	3	3	4	Cane Seats S. U.	D 1	1 1/2	1 1/2	D 1	Cylinders, Pump	3	3	3	2
Awnings	1	1	1	1	Upholstered, S. U.									
Axe Handles:					Wood or Leather, S. U.	D 1	1	1 1/2	D 1					
In bundles	2	3	3	4	Chiffoniers	1	2	1	1	<b>D</b>				
In boxes or crates	4				China Closets, S. U.	D 1	1 1/2	1 1/2	1 1/2	Desks, boxed wrap'd or crated	1	2	1 1/2	1
Axes	See hdwe	3	hdwe	hdwe	Channels	4	6	4	4	Desk Beams	4	6	4	4
					Closet Bowls					Diamond Drill	1	3	1	1
<b>B</b>					Iron	3	3	3	3	Dining Room Tables				
Rabbitt Metal	3	4	3	4	Earthenware	2	4	2	4	K. D.	3	2	2	2
Band Iron	4	6	4	4	Closet Ranges	2	3			Dishes	1	2	R26	4
Barbed Wire	4	6	4	4	Loose			1	2	Doors, Fire	4	4	3	3
Barn Door Hangers	3	4	R26	3	In crates or boxes			3	3	Door Screens, see Screen Doors				
Barn Rails	3	4	R26	4	Nested	3				Doors, Common	4	4	3	4
Barn Sash:					Closet Seats			2	3	Doors, Common, Glazed	3	3	1	4
Glazed	4	4	3	4	Loose		1			Dressers	1	2	1	1
Unglazed	3	3	1	4	Packed		3			Drag Saws	2	3	1	2
Bars, Steel	4	6	4	4	Closet Tanks:					Drills	2	2	3	2
Basins:					Iron, loose	2	1	1	2					
Iron	3	3	3	3	Nested	3	3	2	3					
Earthenware	2	4	2	4	Clutch Pulleys	1	3	1	1	<b>E</b>				
Basin Bowls:					Columns, Iron	4	6	4	4	Eave Trough and Fittings, N.O.S.	2	1	2	3
Iron	3	3	3	3	Commodore	1	1	1	1	Nested, bxd or crtd	1	2	3	
Earthenware	2	4	2	4	Condensers	3	3	1	2	Edgers, Gang	1	3	1	1
Bath Tubs	1	1	1	1	Conductor Hooks	4	4	3	4	Electrical Apparatus	1	1	1	1
Beaded Ceiling	4	6	4	5	Conductor Pipe	1	D 1	1 1/2	1 1/2	Emery Wheels, bxd.	3	3	3	2
Beams, Iron	4	6	4	4	Crated or boxed	2	2	2	2	Emery Grinders	1	3	1	1
Beds:					Conductor Pipe					Enamel Tubs	1	1	1	1
Brass	1	2	1	1	Shoes	1	D 1	1 1/2	1 1/2	Engines, see Machy.				
Iron or Wood	2	2	2	2	Crated or boxed	2	2	2	2	Extinguisher, Fire	1	1	1	1
Bellows	1	1	1	1	Connections, Lead	2	4	3	2					
Belting	1	2	2	2	Crated	3		4	4	<b>F</b>				
Black Pipe	4	6	4	4	Boxed	4	5	4	4	Fans, Exhaust	1	2	1	2
Blankets	1	1	1	1	Connections, Siamese	4	6	4	4	Feed Cookers	3	3	1	3
Blast Furnaces	1	1	1	1	Cord, Sash	1	3	3	3	Feed Grinders	1	3	1	1
Boilers		3	2	3	Corrugated Iron	4	6	4	5	Felt, Pipe Covering	2	3	2	3
10 feet and under	3				Corrugated Sheets	4	6	4	5	Fencing, Wire	3	5		



[illegible]





LOADING LUMBER FOR CUSTOMERS. WE HAVE 5 TRACKS. CAPACITY 50 CARS PER DAY.

# LUMBER AND BUILDING MATERIAL.

**All Brand New, Thoroughly Seasoned, Guarantee  
Grades Ready For Immediate Shipment.**

## GENERAL FACTS.

The Chicago House Wrecking Co., offers the largest and best assorted stock of brand new, high grade lumber direct to the consumer and user at lowest prices. We are the largest company in the world devoted to selling an extensive line of material such as we offer direct to the consumer. Through our superior buying facilities, and our reputation for taking advantage of special sales, such as Sheriff's, Forced or Receiver's Sales, regardless of how big the amount in dollars and cents, or the quality involved, frequently enables us to purchase our stocks at exceptionally low prices, and we in turn aim to give our customers the benefit of any saving we can make, by quoting them prices that will often mean a saving of from 25 to 50 per cent.

## We Do Not Handle Second Hand Lumber.

Our stock consists of all **BRAND NEW** material, and we ask you **not** to allow statements to the contrary, made by local dealers and persons who do not know any better, to influence you in the matter, **but find out for yourself.** Get our **GUARANTEED** quotation, delivered free of all freight charges F. O. B. cars, your home station, safe and sound delivery of every item guaranteed. It is a no-risk proposition so far as you are concerned, as we guarantee every item that we sell to be strictly as represented and our guarantee is considered good.

## We Ask You to Read

copies of some of the thousands of testimonial letters we receive from customers who purchased their lumber and building material from us, many of whom have never seen their material until it reached them, or have never seen the inside of our establishment, and we therefore ask you to kindly consider these expressions from our customers, who have no interest in our establishment, and who have no interest in writing us in this matter, except to express their honest opinion as to quality of material and treatment they have received.

## Compare These Letters.

Compare the statements made therein against the slanderous statements that will be made by local dealers and members of the various Dealers' Associations and others who profit by maintaining high prices and keeping out outside competition, so as to sell their material at exorbitant prices.

We ask you to kindly read the following pages carefully. **It will pay you to do so** and it will give more information on the subject of lumber and building material in a few moments than you could perhaps gain in your local vicinity the balance of your life.



# MORE GENERAL FACTS

## Our Stock and Supplies.

**W**E carry in stock here at our Chicago plant at all times from 15 to 30 million feet of all kinds of building lumber. We have for immediate delivery a complete line of timbers, joists, scantlings, studding, boards, sheathing, ship lap, siding, flooring, ceiling, finishing lumber, lath, shingles, posts, etc., as well as a complete line of mill work of all kinds fully covered in the millwork section of this book.

Our stock consists of a complete line of the various woods used for all kinds of building purposes, including finishing, lumber, siding, flooring, etc., etc. Materials of Southern Pine, Northern Soft Pine, Cypress, Poplar, Spruce, Red Cedar, Western Soft Pine, all kinds of flooring including hard Pine, White Pine, Spruce, Fir, Oak, Cypress, Maple, etc., etc., in fact we carry practically a most complete variety of lumber, and can meet the reasonable requirements of each and every customer in practically any section of the United States.

We can furnish you lumber for every purpose from the very finest grades that are manufactured to suit the most particular, to the lower grades which are used where the higher are not required. You must readily see the advantage of dealing with a concern that carries the stock such as we do and from which a selection can be made that will meet the demand of the most particular.

## Our Grades and Quality.

All lumber we offer is manufactured, sorted and graded according to the rules of the various Manufacturers Association; all our Southern Pine is graded according to the Southern Pine Manufacturers Association. White Pine according to the Northern Pine Manufacturers Association; Hardwood according to the National Hardwood Association and so on throughout all grades and kinds. Grade for grade, we guarantee our lumber to be exactly the same quality as is carried in stock for the same grades by the very best yards in the country and can guarantee our stock, equal and, in many cases, superior to the average retail offered.

Our finishing material, flooring and other items of this character are steam kiln dried stock, is loaded direct from our sheds to your car which insures you the very best of bright, clean and dry stock suitable for natural finish or any stain finish you may wish to effect.

All our lumber is thoroughly seasoned and new stock. We do not allow it to accumulate or deteriorate in quality on account of age. Our lumber moves rapidly and a personal visit here to our establishment where you can observe the busy scenes of our lumber yard will readily convince you of this.

## Manufacture and Sizes.

All our lumber is manufactured and sized according to the standards adopted by the various manufacturers, governing its manufacture.

## Our Dry Sheds and Warehouse Capacity 4,000,000 Feet.

**W**E have one of the finest and largest lumber dry-sheds in the city of Chicago, in which are stocked continually from 3,000,000 to 4,000,000 feet of all kinds of finishing lumber, siding, flooring and other high class stock, hence we are able at all times to furnish material of this character in a dry and satisfactory condition, ready for immediate use.

Adjoining this warehouse is a portion of our main shipping and loading track, which is covered by a hood extending from the sides of the warehouse the entire length of the building, and enables us to load a large number of cars under cover, regardless of weather conditions.

## Our Shipping Facilities. Capacity, 50 cars per day.

**W**E have positively the best railroad facilities of any shipper in the United States, and our Chicago yard is situated on a famous belt line system connecting with every railroad entering Chicago. Think of it!—every railroad entering this great city of Chicago is a part of our shipping system.

We can cover the entire United States. Our lumber yards switch tracks are so arranged as to facilitate all incoming and outgoing cars at one time, and we can take care of a tremendous number of cars of incoming and outgoing material daily. This means that we can load a car in our own yards and ship it on any road to any railroad station in the United States in the quickest possible time—which also means you can come to Chicago and make a thorough inspection of the material we have to offer, and, if you make your purchase, have it loaded the same day and see the car taken out of our yards before you leave our plant, if you so desire.

## Our Mill Connections.

**W**E have the very best sawmill connections, who maintain the highest standard of manufacture, and who, we have found from experience furnish the very best quality, grade for grade. We have these connections in many states, including Mississippi, Arkansas, Texas, Louisiana, Alabama, etc., enabling us to maintain a complete line of Southern Pine stock at all times. Our northern mill connections are located in Michigan, Wisconsin and Minnesota, and from this source we get our supply of White Pine and other northern soft pine products. Our Red Cedar, Fir, and Oregon Spruce come from our Pacific coast connections; and our supply is from some of the finest, best equipped and largest mills located at that point.

We also have in our lumber yard right here in Chicago a complete sawmill, and are able to saw, on short notice, any special stock that may be required. Our planing mill connection in Chicago is the very best. We can furnish promptly material of any pattern, shape or size your building may require, and guarantee our planing mill work equal to the best, and in many instances to surpass the average stock ordinarily made and sold on the market.

## Careful Loading.

**W**E load all our mixed lumber and millwork orders in box cars which have been thoroughly inspected as to their condition. All the heavy material and dimension material is generally loaded at the bottom, same being carefully piled, with lighter material and millwork on top. Everything is packed and piled in a manner so as to reach customer in the best possible condition and to cause less difficulty in unloading.

When the car is loaded it is sealed on both sides, and these seals are not to be broken except in customer's presence when car reaches him, thus insuring against theft or other disappearance of the material while in transit.

## Direct Shipments From Mill.

**B**Y direct shipments from mill is meant shipping lumber direct from our various mill connections. This means that the lumber is loaded right at the mill; and for such shipments lower prices can be made, but under no conditions can shipment be made in less than carload lots. If the material is to go West of the Mississippi river, the minimum carload is 30,000 pounds, or just about 12,000 feet of mixed lumber such as would ordinarily go into a house or barn bill. If the shipment is to go East of the Mississippi river, where the minimum carload weight is 34,000 pounds, the quantity must not be less than 14,000 feet of mixed material as would ordinarily go into a house or barn.

Delivery can seldom be guaranteed inside of three weeks, regardless of what promises are made you by others. We have found from practical experience that this amount of time will be required, and we find it is to our advantage to have our customers who wish to order in this manner posted, so that they can regulate their affairs accordingly.

No millwork, shingles or small mixed orders for lumber accepted for this class of shipments; but to anyone requiring a reasonable straight carload of timbers, dimension or inch lumber, and who can wait the length of time required for delivery, this method of shipment will mean a considerable saving.



# Absolute Proofs of Our Savings

## AND

# Fair Treatment of All Customers

### SEE EXPLANATION BELOW

May 11 "Saved 40 Per Cent" South Dakota.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: Received car No. 67092 six days after you made shipment. We were far more than satisfied with the lumber. I really believe now that I saved 40 per cent by shipping from your house. Will always be ready to put in a good word for your house. (Signed) Christ Nelson.  
R. No. 2, Box 44.

"Saved 400 Dollars" New Jersey.

Chicago Housewrecking Co., Chicago, Ill.  
Dear Sirs: Our carload of lumber is here and unloaded. Everything is in first-class order and a great deal better in every way than we expected, and we want to thank you for your prompt shipment and excellent measurements. I am sure I saved at least four hundred dollars (\$400) on the load. I expect to build a barn next year, so you can expect to hear from me again, I am.

(Signed) O. H. Faulkner.  
"Ready With a Good Word" Missouri.

Chicago Housewrecking Co., Chicago, Ill.  
Dear Sirs: The car of lumber you shipped me is unloaded and I found everything better than expected. Several men examined the lumber and were well pleased with its appearance. I shall be ready with a good word for the Chicago House Wrecking Company to those who contemplate buying anything you carry in stock. Thanking you for your promptness and kindness. (Signed) G. C. Thrallkill.

"Saved \$370" Iowa.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: I have received the lumber which I have ordered from you. I received it \$370 less than the figures were here and received better lumber. Now my neighbors are after me to ask you what you will take for a car of 6 inches thick by 7 feet long fence posts and how many will go in a car. (Signed) Louie Wollesen.  
R. F. D. No. 1.

"C. H. W. Co. is the Place to Buy" Wisconsin.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: I received the lumber I bought of the Chicago House Wrecking Company last week and I found everything O. K. I am well pleased with the quality of the lumber. I am now satisfied the Chicago House Wrecking Company is the place to buy lumber. Thanking you for the promptness in shipping, and expecting to do more business with you in the future. (Signed) J. W. Payne.

"One from Own House Design" Massachusetts.

Chicago Housewrecking Co., Chicago, Ill.  
Dear Sirs: We received the car of lumber all in good condition and all there as far as I can make out until we get it built. It came in quick time, being here May 11th. Order No. 32308. We are very much pleased with the lumber, and neighbors that helped us say that when they build, they will send there for their goods. Yours truly, (Signed) Howard L. Smith.

"Saved \$100, Everything O. K." Wisconsin.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: The car of lumber we ordered of you May 28th received and unloaded. It came into Fond du Lac Saturday evening and we finished unloading Tuesday, 4 p. m. We found the lumber better than we anticipated. Everything was all right. Some of the people who saw the lumber think it is splendid. We are very very well satisfied and we consider we saved \$100 by ordering from you. We want to thank you for your kindness while there. When we can use everything that you handle you will certainly hear from us. (Signed) F. W. Root & Son.

"Entire Satisfaction" Iowa.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: I acknowledge receipt of shipment of order No. 0920, which arrived in good order, full count, and material most satisfactory. Please accept my thanks for your promptness. When and wherever I shall have an opportunity to speak a good word in your behalf, and express my entire satisfaction with my purchase of building material from you, I certainly will gladly do it. Wishing you success, I remain, yours very truly, (Signed) Melchior Luchsinger.  
(The above refers to second shipment.)

"Will Send for More" Pennsylvania.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: I received the mantels some time ago and they reached here in good shape and am well pleased with all the material that I bought of you. It was the best lot of lumber that has been used in this section for some time. I will send to you for more lumber when in need of any more. I would like very much if you would send the amount I am owing you on the mantels as I wish to get all bills settled. I have not received any bill for them and wrote you some time ago to that effect, so kindly send same and I will send check for the amount. Thanking you for the way your company has treated me in past dealings. (Signed) H. C. Burton.

"All the Items Checked Off as Ordered" New York.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: The lumber received and finished unloading yesterday. All the items checked off as ordered. Everything is satisfactory. The quality is enough better to compensate for the difference in freight. Nearby dealers acknowledge your prices are below them. (Signed) E. E. Wilson.

"Very Good" Minnesota.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: My lumber arrived here in good shape and it is very good, and I am well pleased with my whole bill of lumber, and hope some time to get another bill from you. (Signed) Wm. M. Croix.

"Lumber O. K." Kentucky.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: The car of lumber No.

26760 N. Y. C. & St. L. (house design No. 130) arrived here May 12th, and would say, as far as I have seen, the lumber is O. K. I have not had time to check it up, but will do so this week; but I do not expect to find any difference between the bill of material and the bill of lading. I saw the Oak trim and will say it is A No. 1. (Signed) Wm. E. Conlon.

"Better Than Local Dealers" Michigan.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: The shingles arrived and we unloaded them yesterday. They are above our expectations as to quality and conditions being two grades above the \$3.75 shingles sold by local dealers. There were \$5,000 as per order and only two bunches broken open.

(Signed) I. W. Longrell.

"Everything in Good Condition" New Jersey.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: I received the carload of lumber May 20th which you sent me and found everything in good condition and to my satisfaction. Hoping that you received the check for the remainder of the amount and thanking you for the promptness in which you filled the order. (Signed) Albin Thorson.

"Two Barns, Everything O. K." Illinois.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: My car of lumber from you arrived in Fowler on June 7th and I found everything O. K. There were two barns in the car, one 40x62 and the other 36x44. I have built about forty barns in the past nine years and have never had any better lumber than this car. Thanking you for the prompt shipment.

(Signed) Casper M. Bresch.

"I Am Well Pleased" South Dakota.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: The car arrived all O. K. Everything is satisfactory with the lumber, good measure and I can say I am well pleased. When I am in need of more will give you the bill. (Signed) Lewis H. Burdick.

"Saved \$300, Everything Correct" Illinois.

Chicago Housewrecking Co., Chicago, Ill.  
Gentlemen: We received the last of the lumber and spouting June 9th in good shape. Everything came that the plan called for. That house must have been built a thousand times or you could not have sent everything so correct. We put the house on a higher foundation and it makes it look like a more expensive house. People that drive by and make a guess at the price of the house lay it at \$4,000. The house was closed in June 9th and we will be ready for plastering in a few days. I have saved \$300 on the house by buying the lumber of you. You can refer anybody to me that you want to, and they can inspect our house, that are going to build. Thanking you for your promptness in everything. (Signed) Thos. Jensen.

## EXPLANATION

The reason we do not publish Post Office addresses of customers who have been kind and courteous to send us the above letters, is, because in former catalogues in which we published these, several customers have been annoyed by receiving annoying letters sent them by unscrupulous local dealers and friends of the various lumber dealers associations, causing a lot of unnecessary and useless correspondence.

If you doubt the genuineness of the letters reproduced above and intend to purchase material from us, we will be pleased to furnish exact address of any one or more. We have thousands of additional letters; receive them every day. They speak for themselves. Space will not permit for a reproduction of a greater number, better than these letters is the quality and low prices that caused them to be written.



# General Information On Lumber

## Prices, Making Lists, Shipments, Etc.

# PRICES

The Prices in this book on Lumber of all kinds, Shingles and Lath are subject to fluctuations. It would be next to impossible for us to keep a correct, accurate and right up-to-date price list on the above items, so as to cover every possible rise that may emanate from market conditions. For instance we may have a certain number of items on which we thought we were publishing low prices, and yet within 24 hours from time of issue of this catalogue, we might purchase at some special sale millions of feet of this particular item, thus enabling us to furnish same at a very much lower price than our printed prices.

Therefore we had deemed it best to publish a sort of a standard list. This list is more of a guide to prospective customers, showing the relative value of the different items rather than the actual net prices.

### For Actual Net Delivered Price

send us your complete list, showing what you will need and where you will want it delivered. Include all Lumber, Millwork, Hardware, Plumbing, Heating, Paint, Oils, etc., etc., and in your Lumber list be sure to mention purpose for which the various items are to be used as this will enable us to make a much more intelligent quotation, and frequently will give us an understanding of your requirements although your list may be in error and in the end might mean a big saving to you.

This list is an easy matter to make out. Simply state the number of pieces, the size, length and the purpose for which you wish to use them. Use our Catalogue numbers wherever you can. If you are in a hurry for the estimate, name the date when you must have it and we will do our level best to get it to you at the time.

### Do Not Send

Sketch, Blue Print Plans, Drawings or Descriptions for our estimates, unless accompanied by a bill of material showing items you will be in need of. Any prices you get in such a manner must be a long way from absolutely correct. There are too many loopholes for substitutious, insufficient quantities and misunderstandings. However, a definite list such as we request above leaves no doubt. We will know just what to figure on, and can figure accurately on your requirements.

Our estimate to you will read **Delivered At Your Home Station.** You will have no freight charges to bother with, no guess work, no misunderstanding.

### Don't Listen to Jealous Dealers

They will do their best to discourage you from even corresponding with us. They know that when we once make you prices, it will be all off with them. They will make statements contrary to every guarantee printed in this book, why—for no other reason than to get your order at their high prices and to maintain these high prices continually. No statement is too libelous for them to make, no method seems to be too low for them and their associations.

We do not have to resort to such means to get our orders. Not one word will you hear from us against any other concerns' material, unless they have been trying to "do" us. We do not have to run down their materials to get our orders. Our system is simply, good goods, honest grades, low prices, a fair and square deal, and it makes no difference to us whether you are an expert

buyer or whether you do not know a thing about it, you can come and buy from us just as cheap. We have **One Price, One Treatment and One Policy**, which is fair and square to all.

A Woman can come here and buy \$1.00 worth of material or a complete house or barn just as cheap as the expert and with a feeling of absolute safety. We have among our satisfied customers, many women customers who, owing to circumstances, are compelled to transact their own business.

### Come and Visit Our Plant

You have an open invitation to visit our plant. Come and see our Lumber and Millwork. You are welcome. You will be shown every courtesy and the best of care will be taken of you and your interests. We have nothing to hide, and you will be agreeably surprised at the magnitude of our establishment, the great number of people we employ in our Lumber Department. Consult our estimators and architects, let them help you in your contemplated building operations.

### Honest Competition

To a dealer or merchant who is honest, fair and square in his competition we present our compliments. We desire nothing fairer.

### Terms

Our general terms are cash and have been outlined in the preceding pages of this catalogue. Write for special terms, if desired, on Lumber Orders, Carload Shipments.

### Now Is the Time to Order

Do not delay sending in your list for our estimate. Now is the Time to Buy Lumber. Our Forest products are becoming less and less every year, and as quantity diminishes the price increases. It is a natural condition governed by the law of supply and demand, therefore if you intend to build or, have any intention of building in the near future, Now is the time to get our prices.

Do not overlook the fact that we publish the handsomest Plan Book in the United States offered for Free Distribution. This plan book will give you full information and prices on a large number of houses, barns, etc., and will be of valuable benefit to you in your contemplated building operations.

In this catalogue we show a few pages from the plan book. This will give you an idea of what the book is like. Write For It Today. Mention the fact that you have seen our offer in this catalogue and your request will get immediate attention.



# PRICE LIST OF LUMBER

ALL PRICES QUOTED ARE F. O. B. CARS, CHICAGO.  
Prices on Lumber, Shingles, Lath Subject to Change. See Page 16 for Full Explanation.  
Send Us Your Bill for Delivered Prices.

## Cedar Shingles.



Manufactured from the best selected logs, carefully graded and packed.

Our Washington State Red Cedar Shingles and Our Michigan and Canadian White Cedar Shingles are the best that are manufactured.

In order to make these shingles consistent with the quality of the

natural wood, only the best and finest tooth saws are used in cutting, and only skilled workmen are employed in operating the machines and in packing bins.

We carry in stock at all times several different grades and kinds of shingles and are, therefore, prepared to furnish you with the kind and grade best suited to your requirements.

Our Extra Clear or 5/2 Clear Red Cedar, are the best 16" Red Cedar Shingles manufactured. Our Extra \*A\* are practically the same quality as the Clears with the exception that they are only a 6/2 shingle.

The Choice \*A\*, Common \*A\*, Diamond \*A\*, and Standard \*A\*, are the best second grade shingles manufactured. The above brands are put up by different Mills and are practically the same quality. These shingles are graded out from high-grade stock on account of minor defects in manufacture or quality. They are not a strictly Clear shingle but are guaranteed to have 6" and better Clear butt.

A good and practical roof can be made by laying these shingles 4 1/2 inches to the weather. In this manner no defects will be exposed to the elements. We recommend these shingles for sheds, small barns and other out-buildings.

**900 Shingles laid 4-1/2" to the weather will generally cover one square, or 100 square feet.**

All shingles are put up in bunches of 250 shingles to a bunch, 4 bunches to a thousand.

	Length.	Price per M.
Standard A	6/2 16" Red Cedar Shingles.	\$2.25
Diamond *A*	6/2 16" " " "	2.30
Common *A*	6/2 16" " " "	2.45
Choice *A*	5/2 16" " " "	2.45
Extra *A*	6/2 16" " " "	3.25
Extra Clear	5/2 16" " " "	3.85
White Cedar	5/2 16" Best Quality Manufactured.	3.25

## DIMENSION SHINGLES.

These shingles are manufactured from the very best selected stock and are absolutely clear.

We can furnish square or any fancy design wanted.

	Price per M.
Square butts,	\$5.50
Fancy butts, any design	6.00

## SHINGLES IN CARLOAD LOTS.

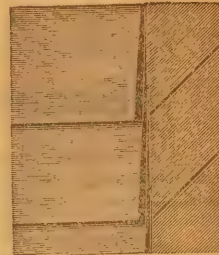
We have in transit from State of Washington and at Minneapolis transfer, at all times, from 25 to 50 carloads of shingles. If you can use a carload of shingles, we can ship same to you direct on a through freight rate and save you considerable sum of money. If you can not use a full carload yourself, you can club together with your neighbors and friends, and in that way save yourself as well as your neighbors money. Many of our customers frequently buy a full carload and sell such shingles as they do not want in their neighborhood at a very handsome profit; 175 to 250 thousand shingles will make a carload. We can furnish either a full carload of one kind or a mixed carload. Write us for special delivered prices in carload lots. We sell and ship more shingles than any other lumber yard in the world.

**DON'T BE MISLED into believing we handle second-hand lumber—as all our stock is guaranteed brand new.**

## Beveled Siding.

### WEATHER BOARDING OR CLAPBOARDS.

Various kinds of woods and grades to suit individual requirements. Furnished in standard lengths.



### RED CEDAR SIDING.

Grade.	Size.	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
C	1" x 4"	\$16.00	\$0.54
C	1" x 6"	16.00	.80
B	1" x 4"	20.00	.67
B	1" x 6"	22.00	1.10

### WESTERN SPRUCE OR OREGON WHITE PINE SIDING.

Grade.	Size.	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
B	1" x 4"	\$20.00	\$0.67
B	1" x 6"	22.00	1.10
Clear	1" x 4"	24.00	.80
Clear	1" x 6"	25.00	1.25

### LOUISIANA RED CYPRESS SIDING.

Grade.	Size.	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
No. 1	1" x 6"	\$18.00	\$0.90
Select	1" x 4"	20.00	.67
Select	1" x 6"	22.00	1.10
Clear	1" x 4"	24.00	.80
Clear	1" x 6"	26.00	1.30

### POPLAR SIDING.

Grade.	Size.	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
C	1" x 4"	\$18.00	\$0.66
C	1" x 5"	20.00	.84
C	1" x 6"	20.00	1.00
B	1" x 4"	20.00	.67
B	1" x 5"	22.00	.92
B	1" x 6"	23.00	1.15
Clear	1" x 4"	26.00	.87
Clear	1" x 5"	28.00	1.16
Clear	1" x 6"	28.00	1.40

### GENUINE MINNESOTA WHITE PINE SIDING.

Grade.	Size.	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
No. 1	1" x 4"	\$18.00	\$0.60
No. 1	1" x 6"	20.00	1.00
C	1" x 4"	24.00	.80
C	1" x 5"	25.00	1.04
C	1" x 6"	26.00	1.30
B	1" x 4"	29.00	.95
B	1" x 5"	30.00	1.25
B	1" x 6"	30.00	1.50

### ARKANSAS SOFT PINE.

Grade.	Size.	Price per 1,000 Feet B.M.	Price per 100 Lineal Feet.
B	1" x 4"	\$18.00	\$0.60
B	1" x 6"	18.00	.90
Clear	1" x 4"	21.00	.70
Clear	1" x 6"	22.00	1.10

All Siding put up in bundles of 10 pieces.



# PRICE LIST OF LUMBER

ALL PRICES QUOTED ARE F. O. B. CARS, CHICAGO.

Prices on Lumber, Shingles, Lath Subject to Change. See Page 16 for Full Explanation.

Send Us Your Bill for Delivered Prices.

## DIMENSION MATERIAL

### Scantling, Studding and Joists (Southern Pine)

All piece stock quoted below is dressed one side and one edge to standard measure, and is therefore properly sized. We guarantee same to be straight and sound and to work full length without waste. We furnish specified size and lengths. We again repeat, the material we quote here is all brand new stock, guaranteed grades, most of it coming from the very best and largest mills, whose reputation for good grades and well seasoned lumber is firmly established.

In making up an order for a carload of lumber, it is well to remember it is always to the purchaser's advantage to make up an order for a carload, which, if you are located east of the Mississippi River requires about 15,000 feet board measure, of mixed lumber, and west of the Mississippi River about 12,000 feet of mixed lumber. Either of these quantities will make sufficient weight to get the benefit of carload rate of freight.

The minimum carload weight upon which freight must be paid in order to get the benefit of carload weight east of the Mississippi River is 34,000 lbs., and west of the Mississippi River is 30,000 lbs., hence the difference in the quantity necessary to make up carload.

As previously stated, we can load up to 25,000 feet on a car, without any danger of overloading depending on the class of material that is loaded, but the number of feet as stated above are necessary to make the required minimum weight upon which the benefit of carload rates can be had.

In sending in your list of items do not overlook the advantage of mentioning clearly the purpose for which the items are to be used; this will help us understand just what you want.

However, kindly remember, as stated in preceding pages, we are willing at all times to name you delivered prices on any material you are in the market for, if you will send us a list showing what you will need. With this list in our possession we can figure definitely upon your requirements and name you exact delivered prices so you will know just exactly what the material will cost you laid down at your station. We guarantee safe delivery and prompt shipment.

**NO ORDERS ACCEPTED** for material on this page amounting to less than \$10.00, for the reason, in shipping small quantities by local freight, it is necessary to bundle and mark all pieces, involving considerable more expense and labor in handling.

Size Inches	Length Feet	Price per 1000 ft. B. M.	Price for Each Piece	Size Inches	Length Feet	Price per 1,000 ft. B. M.	Price for Each Piece
2x 3	8	\$16.00	\$0.07	2x10	4	\$10.00	\$ .07
"	10	20.00	.10	"	6	16.00	.16
"	12	20.00	.12	"	8	20.00	.27
"	14	20.00	.14	"	10	22.00	.37
"	16	20.00	.16	"	12	21.00	.42
"	18	20.00	.18	"	14	21.00	.49
"	20	20.00	.20	"	16	21.00	.56
2x 4	4	10.00	.03	"	18	22.00	.66
"	6	16.00	.07	"	20	22.00	.73
"	8	18.00	.11	"	22	22.00	.73
"	10	24.00	.16	"	24	26.00	.95
"	12	22.00	.18	"	26	28.00	1.04
"	14	21.00	.20	"	28	30.00	1.22
"	16	21.00	.23	"	30	32.00	1.40
"	18	24.00	.29	"	32	33.00	1.60
"	20	24.00	.32	"	34	34.00	1.76
"	22	24.00	.35	"	36	35.00	1.93
"	24	24.00	.38	2x12	4	10.00	2.10
"	26	26.00	.45	"	6	16.00	.08
"	28	28.00	.53	"	8	22.00	.19
"	30	30.00	.60	"	10	23.00	.35
2x 6	4	10.00	.04	"	12	22.00	.46
"	6	14.00	.09	"	14	22.00	.53
"	8	16.00	.13	"	16	22.00	.62
"	10	20.00	.20	"	18	22.00	.70
"	12	20.00	.24	"	20	23.00	.83
"	14	20.00	.28	"	22	23.00	.92
"	16	20.00	.32	"	24	27.00	1.19
"	18	20.00	.36	"	26	27.00	1.30
"	20	20.00	.40	"	28	29.00	1.51
"	22	24.00	.53	"	30	31.00	1.74
"	24	24.00	.58	"	32	33.00	1.98
"	26	28.00	.73	"	34	34.00	2.18
"	28	28.00	.76	"	36	35.00	2.38
"	30	30.00	.90	"		36.00	2.60
2x 8	4	10.00	.06	<b>No. 2 GRADE.</b>			
"	6	16.00	.13	Any of the above piece stock furnished in No. 2 grade at a reduction of			
"	8	18.00	.20	\$2.00 per 1000 feet.			
"	10	22.00	.29	<b>No. 3 GRADE.</b>			
"	12	20.00	.32	This grade of lumber includes such pieces as have been graded out from			
"	14	20.00	.37	No. 1 and No. 2 on account of defects either in manufacture or quality.			
"	16	20.00	.43	Material is suitable for small buildings, such as cheap cattle and sheep			
"	18	22.00	.53	sheds, hog houses, platforms, side walks, elevator cribbing, repair work,			
"	20	22.00	.60	temporary construction, in fact any place where a first class piece is not			
"	22	26.00	.76	required. Furnished only in random lengths and widths, all stock surfaced			
"	24	26.00	.83	one side and one edge.			
"	26	28.00	.98	Price per 1000 ft. ....			
"	28	30.00	1.11	<b>WHITE PINE PIECE STUFF.</b>			
"	30	32.00	1.28	Scantling, studding and joists carried in stock. Send us your list for			
"	32	33.00	1.42	delivered prices.			

## Prices on Special Worked Stock

For 2" Rough piece stock add.....	\$1.00 per 1000 ft.
For 2" piece stuff surfaced 2 sides add.....	1.25 per 1000 ft.
For 2" piece stuff surfaced 4 sides add.....	2.50 per 1000 ft.
For 2" piece stuff surfaced one edge only add.....	1.50 per 1000 ft.



# PRICE LIST OF LUMBER

ALL PRICES QUOTED ARE F. O. B. CARS, CHICAGO.

Prices on Lumber, Shingles and Lath, are Subject to Change, See Page 16 for Full Information.  
Send Us Your Bill for Our Delivered Prices.

## TIMBERS AND HEAVY JOISTS

### No. 1 GRADE.

All timbers and heavy joists offered are guaranteed to be the very best long leaf, southern pine stock, square edge and sound throughout. All timbers listed below are surfaced four sides to standard measurement and all 3" joists are surfaced one side and one edge to standard measurement.

NO ORDERS ACCEPTED for material on this page amounting to less than \$10.00, for the reason in shipping small quantities by local freight, it is necessary to bundle and mark all pieces, involving considerable more labor and expense in handling.

Size Inches	Length Feet	Price per 1,000 ft. B. M.	Price per Each Piece	Size Inches	Length Feet	Price per 1,000 ft. B. M.	Price per Each Piece
3x 4.	8.	\$25.00	\$0.20	4x 8.	8.	\$26.00	\$0.56
"	10.	25.00	.25	"	10.	26.00	.70
"	12.	25.00	.30	"	12.	26.00	.83
"	14.	25.00	.35	"	14.	26.00	.97
"	16.	25.00	.45	"	16.	26.00	1.11
"	18.	25.00	.45	"	18.	27.00	1.30
"	20.	25.00	.50	"	20.	27.00	1.44
"	22.	26.00	.57	"	22.	28.00	1.64
"	24.	26.00	.63	"	24.	28.00	1.80
3x 6.	8.	25.00	.30	"	26.	30.00	2.08
"	10.	25.00	.38	"	28.	31.00	2.34
"	12.	25.00	.45	"	30.	32.00	2.56
"	14.	25.00	.53	"	32.	33.00	2.82
"	16.	25.00	.60	"	34.	34.00	3.09
"	18.	25.00	.68	"	36.	35.00	3.36
"	20.	25.00	.75	6x 6.	8.	26.00	.63
"	22.	26.00	.87	"	10.	26.00	.78
"	24.	26.00	.94	"	12.	26.00	.94
"	26.	28.00	1.09	"	14.	26.00	1.09
"	28.	29.00	1.22	"	16.	26.00	1.25
"	30.	30.00	1.35	"	18.	27.00	1.46
3x 8.	8.	25.00	.40	"	20.	27.00	1.62
"	10.	25.00	.50	"	22.	28.00	1.85
"	12.	25.00	.60	"	24.	28.00	2.02
"	14.	25.00	.70	"	26.	30.00	2.34
"	16.	25.00	.80	"	28.	31.00	2.60
"	18.	25.00	.90	"	30.	32.00	2.88
"	20.	25.00	1.00	"	32.	33.00	3.17
"	22.	26.00	1.15	"	34.	34.00	3.47
"	24.	26.00	1.26	"	36.	35.00	3.78
"	26.	28.00	1.47	6x 8.	8.	26.00	.83
"	28.	29.00	1.62	"	10.	26.00	1.04
"	30.	30.00	1.80	"	12.	26.00	1.25
3x 10.	8.	26.00	.52	"	14.	26.00	1.66
"	10.	26.00	.65	"	16.	27.00	1.95
"	12.	26.00	.78	"	18.	27.00	2.16
"	14.	26.00	.91	"	20.	28.00	2.46
"	16.	26.00	1.04	"	22.	28.00	2.69
"	18.	27.00	1.21	"	24.	30.00	3.12
"	20.	27.00	1.35	"	26.	31.00	3.47
"	22.	28.00	1.54	"	28.	32.00	3.84
"	24.	28.00	1.68	"	30.	33.00	4.22
"	26.	30.00	1.95	"	32.	34.00	4.62
"	28.	31.00	2.17	"	34.	35.00	5.04
"	30.	32.00	2.40	8x 8.	8.	26.00	1.11
"	32.	33.00	2.64	"	10.	26.00	1.39
"	34.	34.00	2.89	"	12.	26.00	1.67
"	36.	35.00	3.15	"	14.	26.00	1.94
3x 12.	8.	27.00	.65	"	16.	26.00	2.22
"	10.	27.00	.81	"	18.	27.00	2.59
"	12.	27.00	.97	"	20.	27.00	2.88
"	14.	27.00	1.14	"	22.	28.00	3.28
"	16.	27.00	1.30	"	24.	28.00	3.59
"	18.	28.00	1.51	"	26.	30.00	4.16
"	20.	28.00	1.68	"	28.	31.00	4.63
"	22.	29.00	1.92	"	30.	32.00	5.12
"	24.	29.00	2.09	"	32.	33.00	5.63
"	26.	31.00	2.42	"	34.	34.00	6.16
"	28.	32.00	2.69	"	36.	35.00	6.72
"	30.	33.00	2.97				
"	32.	34.00	3.26				
"	34.	35.00	3.57				
"	36.	36.00	3.90				
4x 4.	8.	25.00	.27				
"	10.	25.00	.34				
"	12.	25.00	.40				
"	14.	25.00	.48				
"	16.	25.00	.54				
"	18.	25.00	.60				
"	20.	25.00	.67				
"	22.	26.00	.77				
"	24.	26.00	.83				
"	26.	28.00	.97				
4x 6.	8.	25.00	.40				
"	10.	25.00	.50				
"	12.	25.00	.60				
"	14.	25.00	.70				
"	16.	25.00	.80				
"	18.	25.00	.90				
"	20.	25.00	1.00				
"	22.	26.00	1.15				
"	24.	26.00	1.25				
"	26.	28.00	1.46				
"	28.	29.00	1.63				
"	30.	30.00	1.80				

### Large Timbers, No. 1 Long Leaf Yellow Pine.

Prices per 1000 feet

SIZES

Length.	4x10, 6x10 8x10, 10x10	4x12, 6x12 8x12, 10x12 12x12	12x14	14x14	8x16 to 16x16
10 Feet	\$27.00	\$28.00	\$30.00	\$32.00	\$33.00
12 "	27.00	28.00	30.00	32.00	33.00
14 "	27.00	28.00	30.00	32.00	33.00
16 "	27.00	28.00	30.00	32.00	33.00
18 "	28.00	29.00	31.00	33.00	34.00
20 "	29.00	30.00	32.00	34.00	35.00
22 "	30.00	31.00	33.00	35.00	36.00
24 "	31.00	32.00	34.00	36.00	37.00
26 "	32.00	33.00	35.00	37.00	38.00
28 "	33.00	34.00	36.00	38.00	39.00
30 "	34.00	35.00	37.00	39.00	40.00
32 "	35.00	36.00	38.00	40.00	41.00
34 "	36.00	37.00	39.00	41.00	42.00
36 "	37.00	38.00	40.00	42.00	43.00
38 "	38.00	39.00	41.00	43.00	44.00
40 "	40.00	40.00	43.00	45.00	46.00

Timbers and joists furnished any size and length. Write us for special delivered prices. We can ship timbers direct from our southern mill connections in carload lots of from 12 to 14 thousand feet on a through rate of freight and save you money.



# PRICE LIST OF LUMBER

All prices quoted are free on board cars Chicago. Prices on Lumber, Lath and Shingles, subject to change. For full information see page 15.  
Send us your bill for delivered prices.

EVERY STICK OF LUMBER SOLD BY US IS BRAND NEW.

## FINISHING LUMBER

Inside and outside finish to meet every requirement.

### YELLOW PINE OR GEORGIA PINE

Manufactured from the best selected kiln dried stock, clean, bright material, suitable for stain, oil or paint finish. Any special length from 8 to 20 feet. All stock surfaced two sides to standard thickness.

GRADE.	SIZE	Price per 1,000 feet	Price per 100 Lineal Feet.
Select.....	1 x 4	\$28.00	\$0.95
Select.....	1 x 6	30.00	1.50
Select.....	1 x 8	30.00	2.00
Select.....	1 x 10	31.00	2.50
Select.....	1 x 12	32.00	3.20
Clear.....	1 x 4	32.00	1.10
Clear.....	1 x 6	36.00	1.80
Clear.....	1 x 8	36.00	2.40
Clear.....	1 x 10	38.00	3.17
Clear.....	1 x 12	40.00	4.00
Clear.....	1 1/2 x 4	36.00	1.50
Clear.....	1 1/2 x 6	36.00	2.25
Clear.....	1 1/2 x 8	38.00	3.17
Clear.....	1 1/2 x 10	40.00	4.27
Clear.....	1 1/2 x 12	42.00	5.25
Clear.....	1 1/2 x 4	36.00	1.80
Clear.....	1 1/2 x 6	36.00	2.70
Clear.....	1 1/2 x 8	38.00	3.80
Clear.....	1 1/2 x 10	40.00	5.00
Clear.....	1 1/2 x 12	42.00	6.30
Clear.....	2 x 4	36.00	2.40
Clear.....	2 x 6	36.00	3.60
Clear.....	2 x 8	38.00	5.07
Clear.....	2 x 10	40.00	6.67
Clear.....	2 x 12	42.00	8.40

Furnished surfaced four sides, \$1.50 more per 1,000 feet.

## WHITE PINE FINISH

Selected Stock, thoroughly dry, surfaced two sides to standard thickness.

GRADE	Thick-ness	Price per 1,000 Feet, B. M.				
		4 inch	6 inch	8 inch	10 inch	12 inch
Select No. 1, White Pine.....	1 inch	\$36.00	\$38.00	\$38.00	\$38.00	\$40.00
Select No. 1, White Pine.....	1 1/2 inch	42.00	43.00	43.00	43.00	47.00
Select No. 1, White Pine.....	1 1/2 inch	42.00	43.00	43.00	43.00	47.00
Select No. 1, Norway.....	2 inch	26.00	26.00	26.00	30.00	35.00
"D" White Pine.....	1 inch	38.00	40.00	43.00	45.00	50.00
"D" White Pine.....	1 1/2 inch	42.00	45.00	50.00	55.00	60.00
"C" White Pine.....	1 inch	48.00	51.00	53.00	53.00	60.00
"C" White Pine.....	1 1/2 inch	55.00	55.00	58.00	60.00	65.00
"C" White Pine.....	2 inch	58.00	60.00	62.00	62.00	70.00
"B" White Pine.....	1 inch	60.00	60.00	63.00	65.00	70.00
"B" White Pine.....	1 1/2 inch	60.00	60.00	65.00	70.00	73.00
"B" White Pine.....	2 inch	65.00	67.00	70.00	75.00	80.00

Furnished surfaced four sides \$1.50 more per 1,000 feet.

## CYPRESS AND POPLAR FINISH

Clean, bright stock, surfaced two sides.

GRADE	Thick-ness	WIDTHS				
		4 inch	6 inch	8 inch	10 inch	12 inch
Clear Poplar.....	1 inch	\$60.00	\$65.00	\$65.00	\$65.00	\$68.00
Clear Poplar.....	1 1/2 inch	65.00	68.00	68.00	68.00	70.00
Clear Cypress.....	1 inch	55.00	58.00	58.00	60.00	60.00
Clear Cypress.....	1 1/2 inch	60.00	58.00	58.00	60.00	60.00

Clear Poplar or Cypress, 14 inch and wider. Price per 1,000 feet \$90.00.

For Stock surfaced four sides, add \$1.50 per 1,000 feet.

## OAK AND BIRCH FINISH

Finish furnished in Oak or Birch. Write for special delivered prices.

## PORCH AND STAIR LUMBER

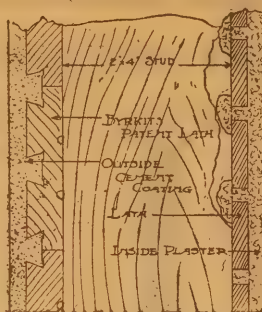
Dressed and worked to standard.

KIND AND GRADE	SIZE	Price per 1,000 Feet.
Select No. 1, White Pine Flooring.....	1 x 4	\$30.00
Select No. 1, White Pine Flooring.....	1 1/2 x 4	42.00
Select C. White Pine Flooring.....	1 x 4	45.00
Select B. White Pine Flooring.....	1 x 4	48.00
Clear, quarter sawed Fir Flooring.....	1 x 4	50.00
Clear, quarter sawed Fir Flooring.....	1 1/2 x 4	55.00
Clear, plain sawed Fir Flooring.....	1 x 4	35.00
Clear Cypress.....	1 x 3	40.00
Clear Cypress.....	1 x 6	40.00
Select No. 1, White Pine Steps.....	1 1/2, 2	45.00
Clear White Pine Steps.....	1 1/2, 2	50.00
Clear Spruce Step.....	1 1/2, 2	55.00
Selected Pine Square Posts.....	4 x 4 - 6 x 6	25.00

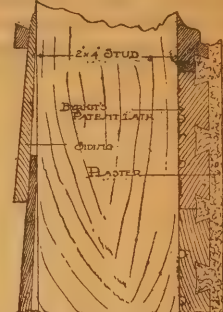
## BYRKITS PATENT SHEATHING LATH



End View Byrkits Patent Sheathing Lath.



Cut showing wall Plastered both sides. Using Byrkits Pat. sheathing Lath outside and regular plastering lath inside.



Cut showing wall using weatherboarding outside and Byrkits Pat. sheathing lath inside.

Ship lapped or Tongue and Grooved Byrkits patent sheathing lath. This material is used to take the place of regular lath and sheathing and fulfills the purpose of both. Nailed on the inside or outside of your studding, it makes a tight sheathing, and will hold plaster equally as well as lath.

4 inch Standard Lengths. Price per 1,000 ft. .... \$18.50  
6 inch Standard Lengths. Price per 1,000 ft. .... 20.00

## COMMON PLASTERING LATH

Standard Size.

GRADE	Length	Price per 1,000 Pieces	Price per Bundle
No. 1 Northern Soft Pine.....	32 inch	\$ 1.90	\$ 0.10
No. 1 Northern Soft Pine.....	4 feet	4.00	.20
No. 2 Northern Soft Pine.....	4 feet	3.50	.18
No. 3 Northern Soft Pine.....	4 feet	3.00	.15
No. 1 Arkansas Soft Pine.....	4 feet	3.50	.18

All Lath tied in bundles of 50 pieces, 20 bundles to the 1,000.

Do not overlook our 32 inch Lath; you can use them any place where the studding is placed on 16 inch centers.

## SHINGLE LATH FURRING AND GROUNDS

Surfaced one side; tied in bundles. Length 10 to 16 feet.

KIND	SIZE	Price per 100 Lineal Feet.
Select Pine.....	1x2	\$ 0.27
Select Pine.....	2x2	.80
Select Pine.....	1 1/2 x 1 1/2	.35
Select Pine.....	1x1	.18

## BATTENS

Manufactured from selected Arkansas Soft Pine. Practically all clear. Length 10 to 20 feet.

1/2 x 2, Flat Battens.....	Price per 100 Lineal Feet	\$ 0.45
1/2 x 2 1/2, Flat Battens.....	" " " " " "	.60
1 1/2 x 3, Flat Battens.....	" " " " " "	.75
2 inch O. G. Battens.....	" " " " " "	.70
2 1/2 inch O. G. Battens.....	" " " " " "	.85
3 inch O. G. Battens.....	" " " " " "	.90

Soft Pine Battens 10 to 16 feet, 10c more per 1,000 feet.

Soft Pine Battens 18 and 20 feet, 20c more per 1,000 feet.

Cut to Length.

## BRIDGING

2x4 inch.....	Price per Piece	\$ 0.02
1x4 inch.....	" " " "	.02 1/2
1x2 inch.....	" " " "	.01 1/2



# PRICE LIST OF LUMBER

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## ALL OUR LUMBER IS GUARANTEED BRAND NEW STOCK.

### BOARDS

Southern Pine or Arkansas Soft Pine, surfaced and planed to Standard Thickness. Lengths 8 to 20 feet, specified lengths furnished in all grades except No. 3.

GRADE	WIDTH	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet.
No. 3	4	\$16.50	\$ 0.55
No. 3	6	17.00	.85
No. 3	8	17.00	1.15
No. 3	10	17.00	1.45
No. 3	12	18.00	1.80
No. 2	4	20.00	.67
No. 2	6	21.00	1.05
No. 2	8	22.00	1.45
No. 2	10	22.00	1.85
No. 2	12	23.00	2.30
No. 1	4	22.00	.75
No. 1	6	23.00	1.15
No. 1	8	24.00	1.60
No. 1	10	24.00	2.00
No. 1	12	26.00	2.60

Graded according to manufacturers' grading standards.

### WHITE PINE BOARDS

Surfaced and Planed to standard thickness. Lengths 10 to 20 feet.

GRADE	WIDTH	10 to 16 Feet.		18 to 20 feet	
		Price per 1,000 Feet B. M.	Price per 100 Lineal Feet	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet.
No. 1	4	\$28.00	\$ 0.95	\$29.00	\$0.97
No. 1	6	36.00	1.80	37.00	1.85
No. 1	8	35.00	2.33	36.00	2.40
No. 1	10	35.00	2.92	36.00	3.00
No. 1	12	37.00	3.70	38.00	3.80
No. 2	4	26.00	.87	27.00	.90
No. 2	6	34.00	1.70	35.00	1.75
No. 2	8	33.00	2.20	34.00	2.30
No. 2	10	33.00	2.75	34.00	2.85
No. 2	12	34.00	3.40	36.00	3.60
No. 3	4	18.00	.60		
No. 3	6	25.00	1.25		
No. 3	8	24.00	1.60		
No. 3	10	24.00	2.00		
No. 3	12	25.00	2.50		
No. 3X	4	16.50	.55		
No. 3X	6	20.00	1.00		
No. 3X	8	20.00	1.33		
No. 3X	10	20.00	1.68		
No. 3X	12	22.00	2.20		

### SHEATHING BOXING AND LINING LUMBER

Surfaced to standard thickness. Lengths 8 to 20 feet.

KIND AND GRADE	Price per 1,000 Feet, B. M.
4-inch No. 2 Pine Roofing Strip	\$17.50
6-inch Nos. 2 and 3, Pine Roofing Strip	20.00
No. 3 Yellow Pine Boxing, 6-inch and wider	17.00
No. 3 Northern Soft Pine Boxing, 6-inch and wider	20.00
No. 3 Yellow Pine Shiplap Sheathing	18.00
No. 3 Northern Soft Pine Shiplap Sheathing	20.00
No. 3 4-inch Dressed and Matched White Pine Sheathing	18.00
No. 3 6-inch Dressed and Matched White Pine Sheathing	20.00
No. 2 Yellow Pine Sheathing, 6-inch and wider	21.00

### ROUGH FENCING

Selected from Regular Stock for strength and durability. Lengths 8 to 16 feet.

KIND	WIDTH	Price per 1,000 Feet, B. M.	Price per 100 Lineal Feet.
White Pine	4	\$22.00	\$ 0.75
White Pine	6	25.00	1.25
Cypress C Select	6	32.00	1.60
Southern Pine	4	20.00	.67
Southern Pine	6	22.00	1.10

### SHIPLAP

Arkansas Soft Pine or Southern Pine, surfaced and manufactured to standard size. Lengths 8 to 20 feet.

GRADE	WIDTH	Price per 1,000 Feet, B. M.	Price per 100 Lineal Feet.
No. 3, furnished only random lengths	8	\$18.00	\$ 1.20
No. 3, furnished only random lengths	10	18.00	1.50
No. 2, any length furnished	6	21.00	1.05
No. 2, any length furnished	8	22.00	1.50
No. 2, any length furnished	10	22.00	1.85
No. 1, any length furnished	6	23.50	1.20
No. 1, any length furnished	8	24.00	1.60
No. 1, any length furnished	10	24.00	2.00
Clear, any length furnished	6	30.00	1.50
Clear, any length furnished	8	32.00	2.15

### WHITE PINE SHIPLAP

Surfaced and manufactured to standard size. Lengths 10 to 16 feet.

GRADE	WIDTH	Price per 1,000 Feet, B. M.	Price per 100 Lineal Feet.
No. 1	6	\$36.00	\$ 1.80
No. 1	8	35.00	2.35
No. 1	10	35.00	2.92
No. 2	6	33.00	1.65
No. 2	8	32.00	2.15
No. 2	10	32.00	2.65
No. 3	6	23.00	1.15
No. 3	8	22.00	1.50
No. 3	10	22.00	1.85
No. 3X	6	20.00	1.00
No. 3X	8	20.00	1.35
No. 3X	10	20.00	1.70

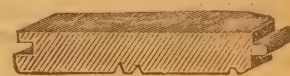
18 and 20 foot lengths furnished at \$1.00 more per 1,000 feet.

### BARN SIDING, TONGUE AND GROOVED

Tongue and Grooved; Dressed and Matched and Worked to Special Patterns.



Pattern No. 1



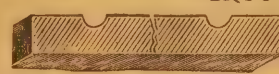
Pattern No. 3.



Pattern No. 2

Furnished in any width, length or grade of Southern Pine, Arkansas Soft Pine or White Pine. Price per 1,000 feet \$1.75 more than Ship Lap. All Barn Siding carefully selected from dry, high grade stock. Be sure and give number of pattern wanted.

### GROOVED ROOFING



Furnished any width, length and grade. Price \$1.00 more per 1,000 feet than Ship Lap.

### CRATING LUMBER

Any grade, size or width furnished. Sawed or manufactured to meet your requirements. Can ship from Chicago stock or direct from mills. Write us for special delivered prices.

### SPRUCE, OREGON FIR, CYPRESS AND POPLAR

SPRUCE, OREGON FIR, CYPRESS AND POPLAR, carried in stock. All grades widths and lengths manufactured to meet your wants include this material in your bill, we can furnish it. Write us for special delivered prices.



# PRICE LIST OF LUMBER

All prices quoted are free on board Chicago. Prices on Lumber subject to change, see page 16 for full explanation. Send us your bill for delivered prices.  
**NOT A SINGLE PIECE OF SECOND HAND LUMBER IN OUR STOCK.**

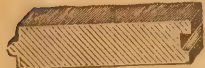
## FLOORING



Hard Pine or Southern Pine. Tongued and grooved or planed to standard thickness and width. High grade flooring; all kiln dried, bright clean stock. Lengths, 8 to 20 feet.

GRADE	SIZE	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet.
No. 3	1x3 in.	\$15.00	\$0.40
No. 3	1x4 in.	15.00	.50
No. 3	1x6 in.	18.00	.90
No. 2	1x3 in.	20.00	.50
No. 2	1x4 in.	20.00	.70
No. 2	1x6 in.	21.00	1.05
No. 1	1x3 in.	24.00	.60
No. 1	1x4 in.	24.00	.80
No. 1	1x6 in.	25.00	1.25
C	1x3 in.	27.00	.70
C	1x4 in.	27.00	.90
C	1x6 in.	28.00	1.40
Clear	1x3 in.	30.00	.75
Clear	1x4 in.	30.00	1.00
Clear	1x6 in.	32.00	1.60
Star Edge Grain (Sawed)	1x3 in.	33.00	.85
Star Edge Grain (Sawed)	1x4 in.	33.00	1.10
Clear Edge Grain (Sawed)	1x3 in.	37.00	.95
Clear Edge Grain (Sawed)	1x4 in.	36.00	1.20

## BAEN OR FACTORY FLOORING.



Dressed, Matched and Worked to Standard Measure.

KIND	GRADE	SIZE	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet
Southern Pine	No. 2	2x6	\$20.00	\$ 2.00
Southern Pine	No. 1	2x6	24.00	2.40
Southern Pine	No. 1	3x6	24.00	3.60
Minnesota Soft Pine	No. 1	2x6	25.00	2.50

All Flooring sold random lengths from 8 to 20 feet. Specified lengths \$1.00 more per 1,000 feet. Oak and Maple Flooring furnished in 2-inch stock for factory flooring.

## WHITE PINE FLOORING.



Dressed, Matched and Worked to Standard. Lengths 8 to 16 feet.

GRADE	SIZE	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet
No. 3	1x4	\$ 20.00	\$ 0.75
No. 3	1x6	25.00	1.25
No. 2	1x4	26.00	.90
No. 2	1x6	33.00	1.65
No. 1	1x4	30.00	1.00
No. 1	1x6	36.00	1.80
D Select	1x4	27.00	1.25
D Select	1x6	39.00	1.95
C Select	1x4	43.00	1.65
C Select	1x6	46.00	2.30

White Pine Flooring 18 and 20 feet, \$2.00 more per 1,000 feet. Specified length, \$1.00 more per 1,000 feet.

## FIR FLOORING.



Tongue and Grooved, Surfaced and Dressed to Standard measure. Lengths, 6 to 20 feet.

GRADE	SIZE	Price per 1,000 Feet	Price per 100 Lineal Feet
Clear, plain sawed	1 x4	\$37.00	\$1.24
Clear quarter-sawed	1 x4	48.00	1.60
Clear quarter-sawed	1 1/2 x4	60.00	2.10

## SPRUCE AND CYPRESS FLOORING.

Spruce and cypress flooring carried in stock. Write for special delivered prices.

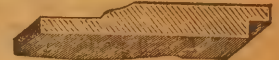
## SPRUCE, FIR AND CYPRESS DROP SIDING.

6 inch Drop Siding furnished, in any of the above woods, any style. Lengths 8 to 20 feet. Price per 1000 feet \$30.00.

## DROP SIDING OR NOVELTY SIDING OR GERMAN SIDING.



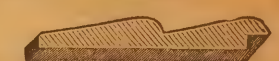
No. 104.



No. 113.



No. 106.



No. 117.

Manufactured from 1x6 or 1x8, selected kiln dried stock. Lengths, 8 to 20 feet. Arkansas Soft Pine or Short Leaf Southern Pine.

GRADE	WIDTH	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet
No. 2	1x6	\$20.00	\$1.00
No. 2	1x8	22.00	1.60
No. 1	1x6	24.00	1.20
No. 1	1x8	24.00	1.60
Select	1x6	26.00	1.30
Clear	1x6	30.00	1.50

Specified lengths \$1.00 more per 1,000 feet. Furnish any of the above patterns or styles. Can furnish any other style at \$1.75 more per 1,000 feet. Be sure to give number of style wanted when you send your order.

## WHITE PINE DROP SIDING.

Dressed and worked to any of the above patterns from Dry Shed Stock, carefully selected. Lengths, 8 to 16 feet.

GRADE	WIDTH	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet
No. 2	1x4	\$ 26.00	\$ 0.90
No. 2	1x6	33.00	1.65
No. 2	1x8	32.00	2.15
No. 1	1x4	30.00	1.00
No. 1	1x6	35.00	1.75
No. 1	1x8	34.00	2.90
D Select	1x4	36.00	1.20
D Select	1x6	39.00	1.95
D Select	1x8	37.00	2.50

18 and 20 feet white pine drop siding \$1.00 more per 1,000 feet. Specified lengths \$1.00 more per 1,000 feet. Any other pattern or style, except above \$1.75 more per 1,000 feet.

## CEILING AND WAINSCOTING.



Southern Pine, Yellow Pine, Arkansas Soft Pine. Tongued, grooved and beaded. All kiln dried, clean stock.

GRADE	SIZE	Price per 1,000 feet B. M.	Price per 100 Lineal Feet
Clear	1x4	\$22.00	\$ 0.75
No. 1	1x4	17.00	.60
Clear	1x4	24.00	.80
No. 1	1x4	20.00	.70
No. 2	1x4	15.00	.50
Clear	1x4	25.00	.85
No. 1	1x4	21.00	.70
No. 2	1x4	16.00	.55
Clear	1x4	28.00	.95
No. 1	1x4	24.00	.80
No. 2	1x4	20.00	.70
Clear	1x6	30.00	1.50
No. 1	1x6	25.00	1.25
No. 2	1x6	21.00	1.05

## WHITE PINE CEILING. Dressed, Matched and Beaded.

GRADE	SIZE	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet
C	1x4	\$45.00	\$1.50
Select No. 1	1x4	30.00	1.00
No. 2	1x4	25.00	.85
Select No. 1	1x6	36.00	1.80
No. 2	1x6	32.00	1.60

All ceiling sold random lengths, 8 to 16 feet. Any specified length \$1.00 more per 1,000 feet.

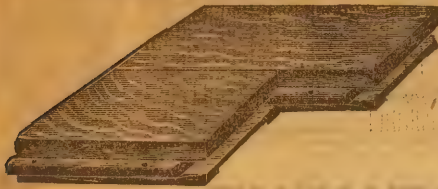


Dressed, Matched and Beaded, both sides. Furnished in any specified length from 8 to 20 feet.

KIND	SIZE	Price per 1,000 Feet B. M.	Price per 100 Lineal Feet
Clear Yellow Pine	1x4	\$30.00	\$1.00
No. 1 Yellow Pine	1x4	25.00	.85
No. 2 Yellow Pine	1x4	20.00	.70
Clear Yellow Pine	1x6	30.00	1.50
No. 1 Yellow Pine	1x6	26.00	1.30
No. 2 Yellow Pine	1x6	23.00	1.15
Select No. 1 White Pine	1x4	30.00	1.00
No. 2 White Pine	1x4	25.00	.85
Select No. 1 White Pine	1x6	36.00	1.80
No. 2 White Pine	1x6	32.00	1.60



## HARDWOOD FLOORING



45c

Per 100 Lineal Feet.

HIGH GRADE STEEL POLISHED HARDWOOD FLOORING. The Best Flooring Made.

Our Hardwood Flooring is manufactured from superior kiln dried stock, with the most modern machinery, scientifically treated and properly cured. All select and clear stock, carefully tongued and grooved, end matched.

Seven-eighth inch stock is hollow backed and bored for blind nailing.

Three-eighth inch flooring is sold by the 100 lineal feet; 8 lineal feet of 1 1/2 inch face flooring will cover one square foot. Therefore to find out the number of lineal feet you need to cover your floor, multiply the number of square feet to be covered by 8.

We do not handle second hand lumber notwithstanding many statements to contrary.

## MAPLE FLOORING.

GRADE	THICKNESS	WIDTH OF FACE	Price per 100 Lineal Feet	Price per 1,000 Feet B. M.
Select.	3-8	1 1/2 inch	\$0.45	
Clear.	3-8	1 1/2 inch	.60	
No. 1.	7-8	2 1/2 inch	.65	\$26.00
Select.	7-8	2 1/2 inch	.95	37.00
Clear.	7-8	2 1/2 inch	1.10	43.00

## CLEAR QUARTER SAWED OAK FLOORING.

Clear 1/2 sawed Red Oak	3-8	1 1/2 inch	\$1.10	
Clear 1/2 sawed Red Oak	7-8	2 1/2 inch	2.20	
Clear 1/2 sawed White Oak	3-8	1 1/2 inch	1.20	\$87.00
Clear 1/2 sawed White Oak	7-8	2 1/2 inch	2.40	95.00

## PLAIN, RED OR WHITE OAK FLOORING.

Select.	3-8	1 1/2 inch	\$0.65	
Clear.	3-8	1 1/2 inch	.80	
Select.	7-8	2 1/2 inch	1.10	\$43.00
Clear.	7-8	2 1/2 inch	1.50	58.00

## TABLE FOR FIGURING BOARD MEASURE

To find the number of feet, board measure, in any size piece of timber, refer to the proper size in inches in column headed "Size in Inches," and opposite in the column under the proper length in feet you will find the number of feet, board measure. For instance, one piece 2x8x18 feet long, refer to the size 2x8 and under the column 18 feet you will find the amount 24, which is the number of feet, board measure, in this piece.

Size in Inches	Length in Feet											
	10	12	14	16	18	20	22	24	26	28	30	32
	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.	Feet B.M.
1 x 4	3 1/2	4	4 1/2	5 1/2	6	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	11 1/2	12 1/2
1 x 6	5	6	7	8	9	10	11	12	13	14	15	16
1 x 8	6 1/2	8	9 1/2	10 1/2	12	13 1/2	14 1/2	16	17 1/2	18 1/2	20	21 1/2
1 x 10	8 1/2	10	11 1/2	13 1/2	15	16 1/2	18 1/2	20	22	23 1/2	25	26 1/2
1 x 12	10	12	14	16	18	20	22	24	26	28	30	32
2 x 4	6 1/2	8	9 1/2	10 1/2	12	13 1/2	14 1/2	16	17 1/2	18 1/2	20	21 1/2
2 x 6	10	12	14	16	18	20	22	24	26	28	30	32
2 x 8	13 1/2	16	18 1/2	21 1/2	24	26 1/2	29 1/2	32	34 1/2	37 1/2	40	42 1/2
2 x 10	16 1/2	20	23 1/2	26 1/2	30	33 1/2	36 1/2	40	43 1/2	46 1/2	50	53 1/2
2 x 12	20	24	28	32	36	40	44	48	52	56	60	64
2 x 14	23 1/2	28	32 1/2	37 1/2	42	46 1/2	51 1/2	56	60 1/2	65 1/2	70	74 1/2
2 x 16	26 1/2	32	37 1/2	42 1/2	48	53 1/2	58 1/2	64	69 1/2	74 1/2	80	85 1/2
2 1/2 x 12	25	30	35	40	45	50	55	60	65	70	75	80
2 1/2 x 14	29 1/2	35	40 1/2	46 1/2	52 1/2	58 1/2	64 1/2	70	75 1/2	81 1/2	87 1/2	93 1/2
2 1/2 x 16	33 1/2	40	46 1/2	53 1/2	60	66 1/2	73 1/2	80	86 1/2	93 1/2	100	106 1/2
3 x 6	15	18	21	24	27	30	33	36	39	42	45	48
3 x 8	20	24	28	32	36	40	44	48	52	56	60	64
3 x 10	25	30	35	40	45	50	55	60	65	70	75	80
3 x 12	30	36	42	48	54	60	66	72	78	84	90	96
3 x 14	35	42	49	56	63	70	77	84	91	98	105	112
3 x 16	40	48	56	64	72	80	88	96	104	112	120	128
4 x 4	13 1/2	16	18 1/2	21 1/2	24	26 1/2	29 1/2	32	34 1/2	37 1/2	40	42 1/2
4 x 6	20	24	28	32	36	40	44	48	52	56	60	64
4 x 8	26 1/2	32	37 1/2	42 1/2	48	53 1/2	58 1/2	64	69 1/2	74 1/2	80	85 1/2
4 x 10	33 1/2	40	46 1/2	53 1/2	60	66 1/2	73 1/2	80	86 1/2	93 1/2	100	106 1/2
4 x 12	40	48	56	64	72	80	88	96	104	112	120	128
4 x 14	46 1/2	56	65 1/2	74 1/2	84	93 1/2	102 1/2	112	121 1/2	130 1/2	140	149 1/2
6 x 6	30	36	42	48	54	60	66	72	78	84	90	96
6 x 8	40	48	56	64	72	80	88	96	104	112	120	128
6 x 10	50	60	70	80	90	100	110	120	130	140	150	160
6 x 12	60	72	84	96	108	120	132	144	156	168	180	196
6 x 14	70	84	98	112	126	140	154	168	182	196	210	224
6 x 16	80	96	112	128	144	160	176	192	208	224	240	256
8 x 8	53 1/2	64	74 1/2	85 1/2	96	106 1/2	117 1/2	128	138 1/2	149 1/2	160	170 1/2
8 x 10	66 1/2	80	93 1/2	106 1/2	120	133 1/2	146 1/2	160	173 1/2	186 1/2	200	213 1/2
8 x 12	80	96	112	128	144	160	176	192	208	224	240	256
8 x 14	93 1/2	112	130 1/2	149 1/2	168	186 1/2	205 1/2	224	242 1/2	261 1/2	280	298 1/2
10 x 10	83 1/2	100	116 1/2	133 1/2	150	166 1/2	183 1/2	200	216 1/2	233 1/2	250	266 1/2
10 x 12	100	120	140	160	180	200	220	240	260	280	300	320
10 x 14	116 1/2	140	163 1/2	186 1/2	210	233 1/2	256 1/2	280	303 1/2	326 1/2	350	373 1/2
10 x 16	133 1/2	160	186 1/2	213 1/2	240	266 1/2	293 1/2	320	346 1/2	373 1/2	400	426 1/2
12 x 12	120	144	168	192	216	240	264	288	312	336	360	384
12 x 14	140	168	196	224	252	280	308	336	364	392	420	448
12 x 16	160	192	224	256	288	320	352	384	416	448	480	512
14 x 14	163 1/2	196	228 1/2	261 1/2	294	326 1/2	359 1/2	392	424 1/2	457 1/2	490	522 1/2
14 x 16	186 1/2	224	261 1/2	298 1/2	336	373 1/2	410 1/2	448	485 1/2	522 1/2	560	597 1/2

**APPROXIMATE WEIGHT OF LUMBER.**—A carload of lumber consists of from ten to fifteen thousand feet. [See first page of prices.] The minimum weight of a carload is usually 30,000 to 34,000 lbs. It requires about 12,000 to 15,000 feet to make a carload. We can, however, load up to 25,000 feet on a single car, or we can include additional material of same classification up to about 80,000 pounds. The above table will enable you to estimate how many feet of lumber you will need in making up the weight of a minimum car.

**WEIGHT OF DOORS AND SASH.**—In estimating weight of doors we can only give you an approximate idea. 7/8 inch doors of average size, 17 to 24 lbs. each. 1 1/2 inch doors from 22 to 23 lbs. 1 3/4 inch doors from 33 to 40 lbs.

Windows glazed weigh from 12 to 40 lbs. each. This is for average weight window. However, when you furnish us a list of exact material you require, we will estimate the freight for you, and tell you just how much the material will cost you laid down at your home station.



# MILL WORK DEPARTMENT

## OUR PRICES THE LOWEST

### WHY?

**T**HE CHICAGO HOUSE WRECKING COMPANY is in a position to give you the lowest prices of any establishment on earth on all kinds of brand new mill work of every description. In addition to buying our material in the regular way in immense quantities, we also buy large quantities of standard stock material at various forced sales, receivers' sales, etc., and can therefore, offer to the public material of the very best quality at prices that are far lower than those that can possibly be made by any competitor. All material is absolutely guaranteed in every instance to be exactly as represented and up to the grade specified in every particular.

### OUR LINE

**S**PACE will not permit the reproduction of the hundreds of thousands of articles that we handle and can furnish. Our line is made up of everything in the standard stock of lumber and mill work consisting of doors, windows, casings, base, frames, mouldings, stairway and porch materials, grills, floorings, art glass, mantels, consoles, blinds, and everything and anything pertaining to any kind of a finish job, whether it be a five dollar or a fifty thousand dollar job.

### QUALITY

**O**NLY standard grades are handled by us. Our material is sold under these standardizations and the customer assumes no risk whatever in purchasing from us. Our binding guarantee that material must be strictly as represented in every respect is sufficient to give absolute protection to any customer who may be inclined to doubt the quality that we are offering. Of course, it is our aim and endeavor, in every instance, to give the customer absolutely the most that we can possibly give him for his money. Our mills are the largest in the United States, the best equipped and our superior purchasing facilities in other directions enable us to make prices that are positively the very lowest, quality considered.

### COMPARISON

**W**E are pleased to have our mill work compared with any manufactured in the United States or elsewhere. It is our aim to furnish the best material that can possibly be furnished for the various purposes for which it is used, furnishing only such mill work that is manufactured from well air seasoned, thoroughly kiln-dried lumber. All the joints are glued with imported glue pressed together by a tremendous steam power press, sand papered and finished with special care and we invite comparison of any kind of the material we furnish with that furnished by any other dealer, same class and price considered.

### OUR BUSINESS

**O**UR mill work business has jumped by leaps and bounds in the short space of two years to where it is practically one of the largest in the United States today. This tremendous increase we credit solely to our exceptional quality, prompt shipment and extremely low prices. It would be impossible to build up the tremendous business we have in this particular line in this short period of time through any other channel.

### SEND US YOUR LIST

**I**T will be well for you to send in a complete list of your requirements in mill work as we frequently have on hand standard stocks that come to us through special sales as outlined above, which we can figure in our quotation to you at still lower prices. However, if you have neither the time nor inclination to do this, you can make up your order direct from our catalog with perfect safety and rest assured that you will get just exactly what our catalog quotes.



# MILL WORK—General Information

## DELIVERED PRICES AT YOUR STATION

**A**LL prices in this catalog are F. O. B. cars Chicago. We will name you delivered prices on any lumber or mill work that you may wish. These prices will be laid down, F. O. B. cars your station, free of all freight charges and safe delivery guaranteed. Should any material be received in a damaged condition, all that is necessary is to have a notation made on the freight receipt by the agent and this freight receipt forwarded to us and the matter will be immediately adjusted to your satisfaction. However, the matter of freight charges is a very small one and need not worry you in the least. You can get just as low a freight rate as we can, as the Inter-State Commerce Commission's rules and regulations covering this subject are very clear, and the penalty very severe and no railroad would dare to discriminate. Should you purchase from us without getting a delivered price first and it would appear to you that there is something wrong with your freight charges, we have a competent and well informed Traffic Department who will investigate this matter for you at once and give you full report without any charge. No other establishment offers you such inducements and protection.

## A TRIAL ORDER

**A** trial order will convince you that we have the goods just as good and frequently very much better than those that are shown you in your local dealers' yards or office and the price at which you will purchase them from us will be from fifteen to fifty per cent lower than they can furnish them. All we ask is a trial order. All goods are safely and securely packed so as to reach destination in the very best of condition and from actual facts and figures we find that the percentage of breakages is so small as to be unworthy of any consideration whatever.

## SHIPPING FACILITIES

**O**UR shipping facilities are unsurpassed. In the first place, we have a large number of railroad tracks right in our yards here in Chicago where we can load from thirty-five to fifty carloads of lumber, mill work and miscellaneous material per day. In addition to that, our Western factory is located in Iowa and enjoys the very best freight rates for the Central, Northern, South-western and Western sections of the United States. This is the largest mill work factory in existence, and can handle an order from a single item to tens of thousands and can handle it with the quickest dispatch possible.

## SIZES

**I**T is needless to remind you that if you specify standard sizes as shown in our catalog, you get the best material at the lowest price in the shortest possible time. Nearly every requirement can be filled from standard or stock size material. It not only means the greatest economy for the time being but also economy and ease of making future repairs or additions and ease of maintaining a continual uniformity regardless of when such improvements or additions may be made. In other words, order your sash and cut the hole to fit it. Do not cut the hole and then have the sash made to fit the hole. This is extremely expensive and of hardly any benefit to anyone except the local yard, which charges about four prices for such work.

## ORDERS

**I**N making out your order, please write only on one side of the paper. In order to sell material at low prices, we must economize in every direction. An order clearly and neatly written means a saving of error as well as of time and labor and is always an advantage to the purchaser.

## RUSH ORDERS

**S**PECIAL attention will be paid to customers who must have their material shipped at once. Mention the date upon which you wish them and unless the material has to be made up of special stock, we will do our level best to see that the material is shipped in the time specified by you as we gain absolutely nothing by delaying your order a moment longer than is necessary or a moment longer than it is desired by you and we gain a whole lot by shipping you your order when you want it, and therefore, we are anxious at all times to do the very best we can for you.

## SPECIAL TO CONTRACTORS, CARPENTERS AND BUILDERS

**W**E solicit a thorough comparison of our prices and qualities by you who are thoroughly posted on values and prices. We have among our customers many contractors, builders and carpenters who purchase their own material and we aim to help such customers in every possible manner to transact their business with the least possible worry, trouble or delay of any kind and all we want is a trial order to prove this.

## INDEPENDENT

**W**E do not belong to any association, any trust, any combine, any affiliation, have no understanding of any kind with any of the above named and are absolutely independent. We have no agents or representatives and any person saying anything to the contrary is either misinformed or is deliberately falsifying facts. We deal direct with the consumer and give him the benefit of every possible saving that can be made and all commissions, association percentages, and trust royalties have been squeezed out of our prices and the result is the lowest possible price of material, quality considered, that is on the market today.

## SPECIAL WORK

**W**E are in position to turn out any kind of special work and furnish you any size, any quantity or any quality or any kind of special mill work manufactured in any kind of wood and will at any time be pleased to furnish you an estimate, naming you delivered prices, under the condition that you furnish us a list showing just what you will require so that we will have definite information to figure from and can base our figures right down to rock bottom.

## HOW TO ORDER

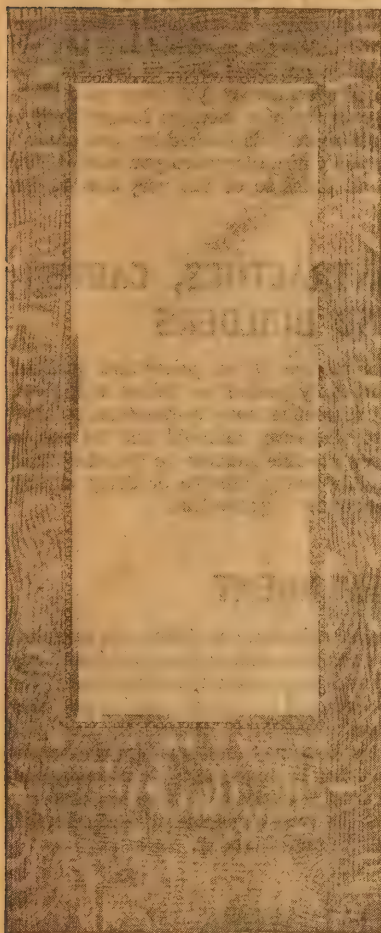
**I**N making out your order, use our order blank if you have one. We will furnish you any number of them and self-addressed envelopes free of charge. Please write only on one side of the paper. Use our catalog number wherever you possibly can, or give full description. Frequently a minute's careful study of our catalog will not only be the means of saving you money, but also save you and ourselves much valuable time and possible worry.

It is a simple matter to order mill work by mail. Any child can do it. Take our catalog, study your wants and our offerings, use our catalog and item numbers wherever possible and make your shipping instructions clear. If there is something in the line of mill work you want that is not described in our catalog, tell us about it. We will quote you by letter on same.



# HARDWOOD FRONT DOORS

veneered red oak, 1 $\frac{1}{4}$  inches thick.



American Beauty

**\$5.98**

Glazed with Double Strength  
"A" Quality Glass,

**\$9.15**

Glazed Best Plate with Wide Bevel

**"First Impressions are  
Most Lasting."**

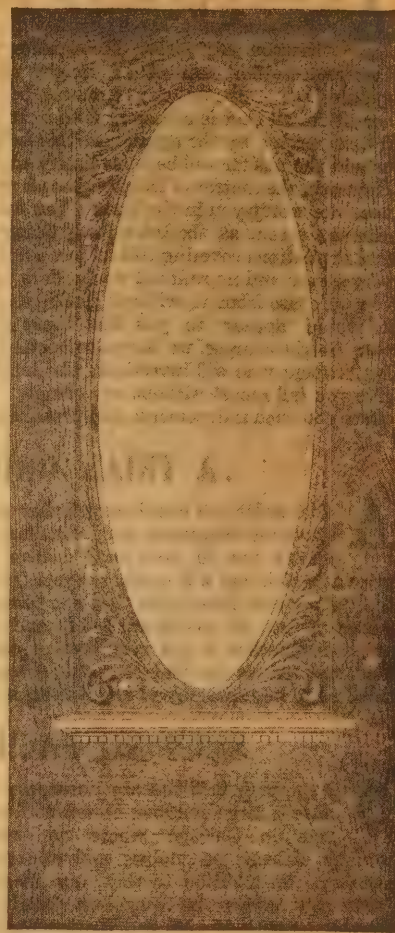
**A Beautiful Front Door  
Creates a Good Im-  
pression.**

All our Hardwood Veneered Doors represent the highest type of modern door making, and the exceptionally low prices on our "American Beauty" and "Morning Glory" Hardwood Veneered Doors is only another illustration of this Company's progressiveness. No other concern ever dared to place such low prices on these doors. The workmanship is all anybody could wish, and when others are offering doors of this character at a bargain price, we consider this represents a better bargain price. By the use of our high-grade front doors you will not only enhance the beauty of the home but increase the value of your property many fold. If doors are properly handled when received and taken care of, they will practically outlast any ordinary building. Strong, durable, lasting.

Great care is taken in packing all our hardwood doors, so that they will reach you in perfect condition, fresh from our planing mills.

No one could possibly use a better grade of ingredients for the veneering process. No one could possibly expend more time on their manufacture, and when we say that we are offering you a strictly modern, high-grade door at a low price, you know that you are receiving the benefit of a bargain price.

We guarantee these doors to be exactly as described and of better stock, finish and appearance than you can buy anywhere else for the prices quoted here.



Morning Glory

**\$10.50**

Glazed with Double Strength  
"A" Quality Glass,

**\$13.80**

Glazed Best Plate with Wide Bevel

veneered red oak, 1 $\frac{1}{4}$  inches thick.

## AMERICAN BEAUTY.

No. 10-A-1. Glazed Plain D. S. A. Glass.	No. 10-A-2. Glazed Sand Blast Glass.	No. 10-A-3. Glazed Clear Beveled Plate.
\$5.98	\$6.65	\$ 9.15
6.45	7.10	11.10
6.40	7.00	10.50
6.75	7.25	11.70

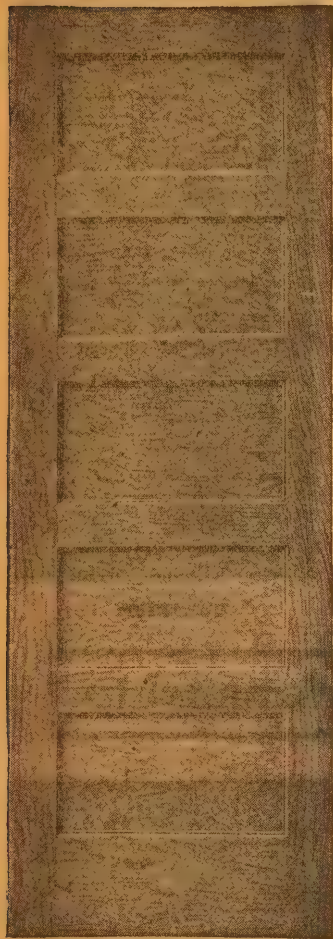
## SIZES OF DOORS.

No. 10-A-4. Glazed Plain D. S. A. Glass.	No. 10-A-5. Glazed Sand Blast Glass.	No. 10-A-6. Glazed Clear Beveled Glass.
\$10.50	\$11.40	\$13.80
10.55	11.50	14.60
10.80	11.70	14.60
11.10	11.80	15.60



# Veneered Hardwood Panel Doors

## The Best Made



ROSELAND

This beautiful cross panel door in veneered Birch, size 2'0"x6'6", each....

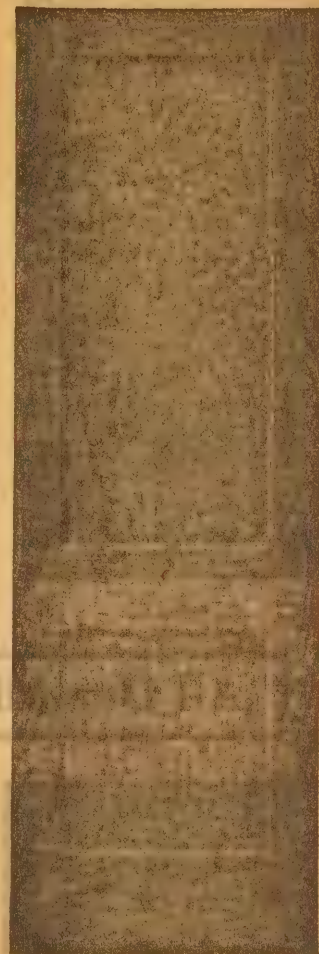
**\$2.50**

On this page we show two of the most popular designs of hardwood veneered doors. These doors are veneered either in oak or birch, the veneers being made by the famous improved rotary cut process instead of the regular saw cut veneers, giving a much more beautiful appearance to the grain of the wood and therefore makes the door more valuable.

Only the highest grade of workmanship enters into the construction of these doors and they are suitable for the finest buildings. It is a well known fact that a good hardwood veneered door is far superior to a solid hardwood door, both as to lasting qualities and remaining true in the frame, for the reason that the woods between the veneer are so placed that the grains run in different directions, one grain counteracting the other and thus taking care of both contraction and expansion. Being exceptionally well finished and beautifully grained, they will permit of a finish in a great variety of ways, either by staining or filling or finishing in natural wood.

There are no better doors of this class made. On account of the beautiful grain, they can be finished to imitate any number of woods such as mahogany, cherry, walnut, mission oak, weathered oak, or natural birch. The birch doors are especially suitable for finish in the various white paints such as enamel or egg shell finish or plain ordinary white finish and you will be agreeably surprised at the good finish and appearance.

Prices we are naming is lower than you can buy anywhere else. The doors are crated and packed securely and we guarantee them to reach you in the same perfect condition that they leave the factory. We can make prompt shipment in any quantity and you can rest assured that the article is the best value on the market.



ELITE

This handsome 2-panel veneered Birch door, size 2'6"x6'6".....

**\$2.85**

ROSELAND			No. 10-A-7	No. 10-A-8	ELITE			No. 10-A-9	No. 10-A-10
Sizes					Sizes				
Width Ft. In.	Height Ft. In.	Thickness Inches	Veneered Plain Red Oak	Veneered Un- selected Birch	Width Ft. In.	Height Ft. In.	Thickness Inches	Veneered Plain Red Oak	Veneered Un- selected Birch
2.0	x 6.0	1 1/4	\$3.40	\$2.50	2.0	x 6.0	1 1/4	\$3.72	\$2.85
2.0	x 6.6	"	3.40	2.50	2.0	x 6.6	"	3.72	2.85
2.6	x 6.6	"	3.40	2.65	2.6	x 6.6	"	3.72	2.85
2.0	x 6.8	"	3.45	2.70	2.0	x 6.8	"	3.84	2.96
2.6	x 6.8	"	3.50	2.80	2.6	x 6.8	"	3.84	2.96
2.8	x 6.8	"	3.50	2.85	2.8	x 6.8	"	3.84	2.96
2.10	x 6.10	"	4.10	3.20	2.10	x 6.10	"	4.44	3.45
2.6	x 7.0	"	4.10	3.10	2.6	x 7.0	"	4.44	3.45
2.8	x 7.0	"	4.30	3.15	2.8	x 7.0	"	4.58	3.56
2.10	x 7.0	"	4.40	3.40	3.0	x 7.0	"	4.89	3.76
2.6	x 7.0	1 1/4	4.60	3.65	2.6	x 7.0	1 1/4	4.92	3.97
3.0	x 7.0	"	4.90	4.00	3.0	x 7.0	"	5.29	4.21



## SOFT PINE FRONT DOORS, DOUBLE

"AA" QUALITY SOFT PINE,  
STRICTLY FIRST CLASS

Our Orchid and Geranium designs are two of the handsomest doors that are popularly called for on the market to-day. Beautiful leaded art glass, the finest and best workmanship that can be produced, which gives these doors a wonderfully artistic and rich effect. Any home owner could be proud of his home if a door of either of these designs graced his house, and at the exceptionally low prices that we are making on these particular designs it will be worth your while to investigate the merits of this class of doors before you make your purchase. Up to a few years ago it was only the millionaire who was supposed to have art glass windows and doors in his house; but our price enables every one to have at least a few. Although we offer these doors at extremely low prices, you can depend upon the quality as being the best.

## ORCHID and GERANIUM

No. 10-A-11		No. 10-A-12	
Glass Leaded Colored Art		Glass Leaded D. S. Crystal	
2'6"x6'6"	\$5.40	2'6"x6'6"	\$4.65
2'8"x6'8"	5.50	2'8"x6'8"	4.75
2'10"x6'10"	6.40	2'10"x6'10"	5.50
2'8"x7'0"	6.40	2'8"x7'0"	5.50
3'0"x7'0"	7.20	3'0"x7'0"	6.00

Above Doors 1 $\frac{1}{2}$ " for Doors 1 $\frac{1}{2}$ " Thick, add \$1.15.

ORCHID

GERANIUM

## All Our Mill Work Is of the Best Workmanship

## SOFT PINE FRONT DOORS, DOUBLE

"AA" QUALITY SOFT PINE,  
STRICTLY FIRST CLASS

Our soft pine doors cannot be equaled for durability. No other soft wood is more susceptible to the workman's tool, nor contains more weather defying qualities. All of our first quality front doors are especially prepared for oil finishing purposes, and when you purchase any of our doors you will know that they are ready for the finisher. The two modern designs offered on this page are adaptable for many purposes—a fitting ornament for the higher priced residence and will not look out of place in the smaller cottage. We especially recommend them for vestibule purposes. The plate glass, an unusual wide bevel, is of crystal clearness, rivaling the finest French or German plate-maker's art.

ORANGE BLOSSOM		Size 1 $\frac{1}{2}$ " Thick	HONEY SUCKLE	
No. 10-A-13	No. 10-A-14		No. 10-A-15	No. 10-A-16
Plain Glass	Glass		Plain Glass	Glass
Double A Glass	Clear Bev. Plate		Double A Glass	Clear Bev. Plate
\$7.00	\$11.80	2'8"x6'8"	\$3.60	\$ 8.10
7.60	13.10	2'10"x6'10"	4.20	9.30
7.70	12.90	2'8"x7'0"	4.30	9.00
8.10	14.30	3'0"x7'0"	4.65	10.20

Above Doors 1 $\frac{1}{2}$ " Thick for Doors 1 $\frac{1}{2}$ " Thick, add \$1.25.

ORANGE BLOSSOMS

HONEY SUCKLE



**SOFT PINE FRONT DOORS, DOUBLE  
"AA" QUALITY, SOFT PINE,  
STRICTLY FIRST CLASS.**

Here is another illustration of our high grade low priced doors. All strictly first quality, of the very latest pattern. Do not overlook the fact that all the material entering into our doors is thoroughly seasoned and manufactured in one of the best equipped plants on the continent. For this reason there is no chance whatever that any of our pine doors will open up or prove unsatisfactory.

No front door is permitted to leave the plant unless it is a strictly first class door. The beautiful lace design on our glass is etched thereon by the latest improved method and no other fancy glass, we are sure, will equal it at the price.

GOLDENROD			Size 1 1/2" Thick	MAGNOLIA		
No. 10-A-17 Plain Double A Glass	No. 10-A-18 Glass as Illustrated	No. 10-A-19 Glazed Bevel Plate		No. 10-A-20 Plain Double A Glass	No. 10-A-21 Glass as Illustrated	No. 10-A-22 Glazed Bevel Plate
\$4.60	\$4.80	\$ 6.60	2'6" x 6'6"	\$3.75	\$4.15	\$6.50
4.85	5.10	6.90	2'8" x 6'8"	3.90	4.35	6.75
5.40	5.80	8.40	2'10" x 6'10"	4.45	4.85	8.30
5.45	5.85	8.45	2'8" x 7'0"	4.60	5.00	8.50
5.75	6.10	10.20	3'0" x 7'0"	4.70	5.15	9.85

For Doors 1 1/2" Thick add \$1.25

GOLDENROD.

MAGNOLIA.

**These Are Exceptionally Good Bargains for the Money**

**SOFT PINE FRONT DOORS, DOUBLE  
"AA" QUALITY, SOFT PINE,  
STRICTLY FIRST CLASS.**

Here we offer two more popular designs, strictly "A" quality soft pine grade for grade, kind for kind. These doors represent an exceptionally high value, and price is a bargain. These doors are all wood, no composition work of any kind. Glass designs first class and true to detail.

HOLLY		Size 1 1/2" Thick	MISTLETOE	
No. 10-A-23 Plain Double A Glass	No. 10-A-24 Glass as Illustrated		No. 10-A-25 Plain Double A Glass	No. 10-A-26 Glass as Illustrated
\$3.20	\$3.30	2'6" x 6'6"	\$3.50	\$3.90
3.30	3.40	2'8" x 6'8"	3.65	4.00
3.90	4.05	2'10" x 6'10"	4.05	4.40
3.95	4.10	2'8" x 7'0"	4.10	4.45
4.20	4.40	3'0" x 7'0"	4.20	4.65

For Doors 1 1/2" Thick add \$1.50.

HOLLY.

MISTLETOE.



**SOFT PINE FRONT DOORS, DOUBLE  
"AA" QUALITY, SOFT PINE,  
STRICTLY FIRST CLASS**

Here we offer you another example of our high quality and low prices. The material is "A" quality soft pine, just the same as is used in doors three to four times the cost. We guarantee the quality, finish and workmanship as the best, in fact, these doors are the finest of their respective kind on the market. All ornaments are solid wood carvings; we use no composition trimmings.

SUNFLOWER		Size  1½"  Thick	PEONY	
No. 10-A-28 Plain Double A Glass	No. 10-A-29 Glass as Illustrated		No. 10-A-30 Plain Double A Glass	No. 10-A-31 Glass as Illustrated
\$3.30	\$3.70	2'6"x6'6"	\$3.70	\$4.25
3.45	3.80	2'8"x6'8"	3.90	4.40
3.90	4.25	2'10"x6'10"	4.35	4.90
4.00	4.30	2'8"x7'0"	4.50	5.00
4.25	4.50	3'0"x7'0"	4.80	5.25

SUNFLOWER

For Doors 1½" Thick add \$1.50.

PEONY

**PUT A NEW FRONT DOOR IN YOUR OLD HOUSE  
AND SEE THE DIFFERENCE**

**SOFT PINE FRONT DOORS, DOUBLE  
"AA" QUALITY, SOFT PINE,  
STRICTLY FIRST CLASS**

These patterns are especially adapted for cottages, being neat and substantial in appearance and offered at a price within the reach of all. The glass illustrations are true to every detail, and when you order the plain glass from us you will know that you will get strictly double strength "A." They are without question the finest strictly "A" quality doors ever offered at such extremely low prices.

MIGNONETTE		Size  1½"  Thick	FORGET-ME-NOT	
No. 10-A-32 Plain Double A Glass	No. 10-A-33 Glass as Illustrated		No. 10-A-34 Plain Double A Glass	No. 10-A-35 Glass as Illustrated
\$3.00	\$3.30	2'6"x6'6"	\$3.10	\$3.30
3.20	3.50	2'8"x6'8"	3.30	3.50
3.70	4.00	2'10"x6'10"	3.75	4.00
3.90	4.10	2'8"x7'0"	4.00	4.20
4.10	4.20	3'0"x7'0"	4.15	4.35

MIGNONETTE

For Doors 1½" Thick add \$1.50.

FORGET-ME-NOT



**SOFT PINE FRONT DOORS, DOUBLE  
"AA" QUALITY, SOFT PINE  
STRICTLY FIRST CLASS**

Here we are offering you brand new designs just as appropriate as they can be, material "A" quality soft pine, workmanship the very best, glass as neat and pretty a design as can be had anywhere, and all in all it would be a hard matter to make a selection of one against the other. All that is necessary to make a decision is a matter of taste. One is just as good as the other, and in their class there are none on the market that are any better.

VIOLET		Size 1½ Thick	SMILAX	
No. 10-A-36 Plain Double A Glass	No. 10-A-37 Glass as Illustrated		No. 10-A-38 Plain Double A Glass	No. 10-A-39 Glass as Illustrated
\$2.80	\$3.00	2'6" x 6'6"	\$2.90	\$3.30
2.95	3.10	2'8" x 6'8"	3.00	3.50
3.45	3.65	2'10" x 6'10"	3.50	4.00
3.50	3.70	2'8" x 7'0"	3.60	4.05
3.90	4.00	3'0" x 7'0"	3.90	4.35

For Doors 1½ Thick add \$1.50.

VIOLET

SMILAX

**Best Kiln Dried and Selected Lumber Used in Our Doors**

**SOFT PINE FRONT DOORS, DOUBLE  
"AA" QUALITY, SOFT PINE  
STRICTLY FIRST CLASS**

Our "Tulip" and "Wildflower" designs are two as popular designs as are on the market for moderate priced front doors. We will back them against any door on the market for durability, workmanship and finish. Soft pine is easily worked, and there is no other material for such purposes that is better and more weather defying in quality.

TULIP		Size 1½ Thick	WILDFLOWER	
No. 10-A-40 Plain Double A Glass	No. 10-A-41 Glass as Illustrated		No. 10-A-42 Plain Double A Glass	No. 10-A-43 Glass as Illustrated
\$2.75	\$2.90	2'6" x 6'6"	\$3.00	\$3.25
2.90	3.05	2'8" x 6'8"	3.20	3.35
3.45	3.55	2'10" x 6'10"	3.70	3.90
3.50	3.70	2'8" x 7'0"	3.75	3.95
3.80	4.00	3'0" x 7'0"	4.00	4.20

For Doors 1½ Thick add \$1.50.

TULIP

WILDFLOWER



## PAINTED AND GRAINED DOORS GLAZED IN SAND BLAST DESIGNS

Without question these doors are not only the lowest priced, painted and grained front doors on the market, but they are the best possible value for the prices as well. The glass in these doors is of the same superior quality as our higher priced doors, same care being taken in their glazing and packing for shipment, in fact when you order these doors from us you get all the value, with the high price squeezed out.

DAISY		Size 1 1/2" Thick	PANSY	
No. 10-A-44 Plain Double A Glass	No. 10-A-45 Glass as Illustrated		No. 10-A-46 Plain Double A Glass	No. 10-A-47 Glass as Illustrated
\$2.10	\$2.25	2'6"x6'6"	\$2.20	\$2.35
2.20	2.30	2'8"x6'8"	2.25	2.40
2.40	2.55	2'10"x6'10"	2.50	2.65
2.40	2.55	2'8"x7'0"	2.50	2.65
2.80	2.95	3'0"x7'0"	2.90	3.05

DAISY (Painted)

PANSY (Grained)

**Prices 25 to 50 per cent Lower than Local Dealers**

## Redwood Front Doors

Here we are offering something entirely new in front doors at almost as low a price as the commonest panel doors without glass. Here you have a door that will take oil finish as well as the finest hardwood door. We are sure no one ever offered you anything that could be oil finished anywhere near this price.

We especially recommend them to the economical buyer who must keep within certain bounds, to use them for outside purposes, and by using our low priced, painted and grained doors for the inside portion of the house you have a money saving combination that cannot be beat.

PRIMROSE		CARNATION	
No. 10-A-48 Glass as Illustrated		No. 10-A-49 Glass, Plain, D. S. A.	
Size	1 1/2" Thick	Size	1 1/2" Thick
2'6"x6'6"	\$2.60	2'6"x6'6"	\$2.35
2'8"x6'8"	2.70	2'8"x6'8"	2.50
2'10"x6'10"	3.35	2'10"x6'10"	3.20
2'8"x7'0"	3.35	2'8"x7'0"	3.20
3'0"x7'0"	3.50	3'0"x7'0"	3.35

PRIMROSE

CARNATION



# High Grade Doors. Special Design and Guaranteed Absolutely

## "A" Grade

We recommend these Doors to our customers as a superior piece of workmanship and made of the highest grade of clear soft pine.

Furnished glazed as illustrated or with clear double strength glass.

(See price below.)

Our Mill Work  
IS BETTER  
Grade for Grade  
than you can obtain  
from  
Regular Dealers.

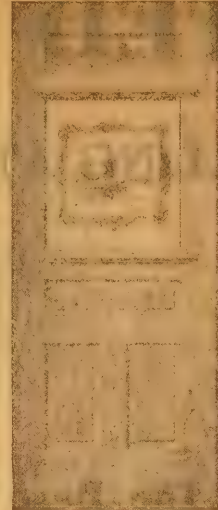
Besides  
Our Prices are  
Very much Lower.



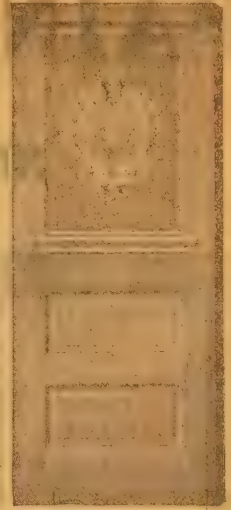
No. 10-A-190.	
Glazed Clear D. S. Glass.	Glazed as Illustrated.
\$5.10	\$5.25
5.25	5.45
5.70	5.85
5.75	5.90
6.05	6.20



No. 10-A-191.	
Glazed Clear D. S. Glass.	Glazed as Illustrated.
\$3.30	\$3.50
3.50	3.70
3.90	4.05
4.00	4.15
4.20	4.40



No. 10-A-192.	
Glazed Clear D. S. Glass.	Glazed as Illustrated.
\$2.90	\$3.05
3.05	3.20
3.45	3.60
3.60	3.75
3.75	3.90



No. 10-A-193.	
Glazed Clear D. S. Glass.	Glazed as Illustrated.
\$3.30	\$3.45
3.40	3.55
3.90	4.05
3.95	4.10
4.20	4.35

If any of above doors are wanted 1 1/2 inches thick add \$1.50.

WINNER

## Modern Store Doors or Vestibule Doors

PREMIUM

### OUR "WINNER" STORE DOORS

are of the latest design and exceptionally high grade quality and we recommend them for use as modern store doors or front and vestibule doors.

We consider the "Winner" doors even stronger than most of the front doors offered by others, of the same thickness and grade of material used.

Please note we offer the "Winner" door in two kinds of glass—double strength "A" and Brand New Plate Glass.

For a vestibule door either single or in pairs the "Winner" is exceptionally well adapted, as it will withstand weather conditions excellently and can be depended upon to keep its shape.

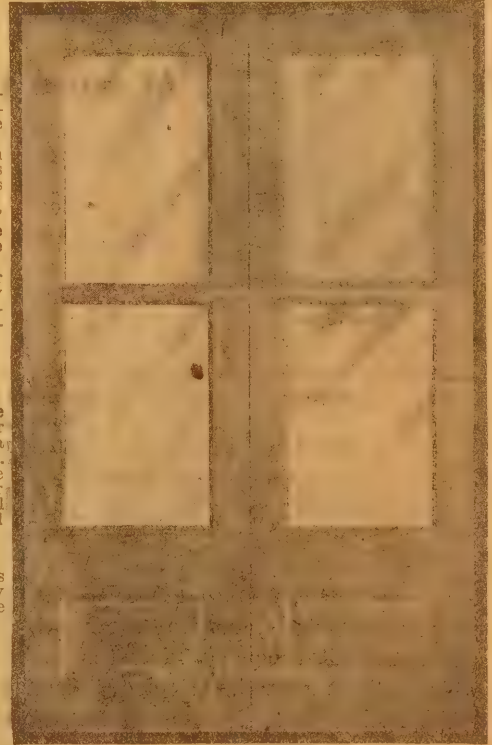
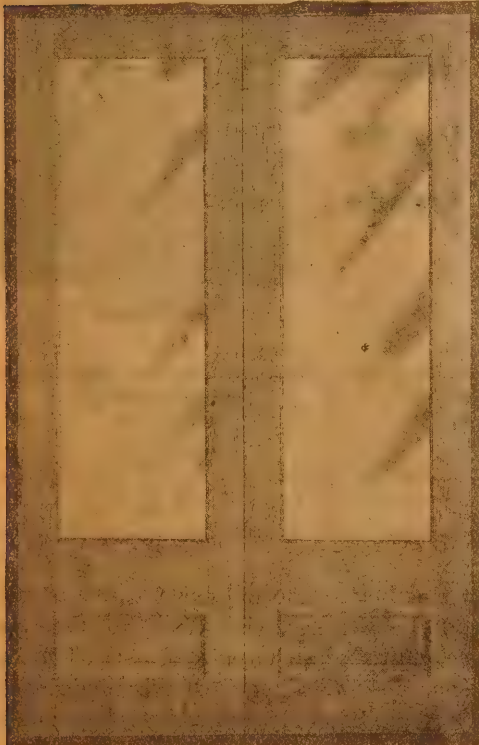
### OUR "PREMIUM" DOOR

is an exceptional bargain for the money. We recommend same for store doors either used as single or as a pair, especially in country town use. As example, the main sash in the store front are used in divided lights, either two or four lights and this door will match better than the highest priced "Winner" door.

### GRADE OF MATERIAL

used in "Premium" door is equally as good as the "Winner" door and only clear soft pine stock being used in the manufacture of same.

## Single Doors Half Price



WINNER  
1 1/2 inches Thick.  
Prices are for one pair of doors, as illustrated.

5 ft. 0 in. x 7 ft. 0 in.
5 ft. 0 in. x 7 ft. 6 in.
5 ft. 0 in. x 8 ft. 0 in.
5 ft. 4 in. x 7 ft. 0 in.
5 ft. 4 in. x 7 ft. 6 in.
5 ft. 4 in. x 8 ft. 0 in.
6 ft. 0 in. x 7 ft. 0 in.
6 ft. 0 in. x 7 ft. 6 in.
6 ft. 0 in. x 8 ft. 0 in.

No. 10-A-50.  
Per Pair  
Glazed,  
D. A. Glass.

\$11.25
12.00
12.60
12.60
12.80
13.25
13.25
13.80
15.00

No. 10-A-51.  
Per Pair  
Glazed Plate  
Glass.

\$18.00
20.00
23.50
20.25
21.65
23.00
23.00
23.40
29.00

Size of Glass.

20x50
20x56
20x62
22x50
22x56
22x62
26x50
26x56
26x62

PREMIUM.  
1 1/2 inches Thick.  
Prices are for one pair of doors, as illustrated.

5 ft. 0 in. x 7 ft. 0 in.
5 ft. 0 in. x 7 ft. 6 in.
5 ft. 0 in. x 8 ft. 0 in.
5 ft. 4 in. x 7 ft. 0 in.
5 ft. 4 in. x 7 ft. 6 in.
5 ft. 4 in. x 8 ft. 0 in.
6 ft. 0 in. x 7 ft. 0 in.
6 ft. 0 in. x 7 ft. 6 in.
6 ft. 0 in. x 8 ft. 0 in.

No. 10-A-52.  
Per Pair  
Glazed  
D. S. A. Glass.

\$ 9.75
10.80
10.85
10.80
10.85
11.30
11.15
12.00
12.70

Size of Glass.

20x24
20x27
20x30
22x24
22x27
22x30
26x24
26x27
26x30



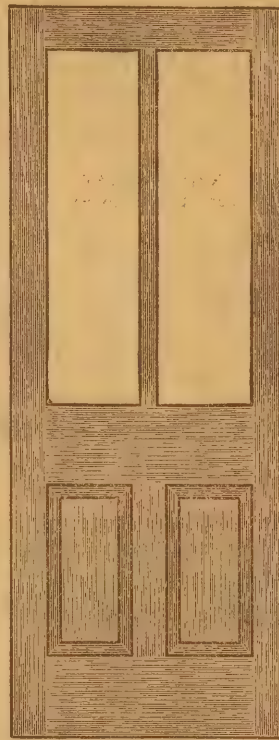
# PAINTED SASH DOORS

## SELLING AT PRACTICALLY COST



**MONEYSAVER**  
One Light

**The Best  
on the  
Market  
for the  
Money**



**ECONOMY**  
Two Lights

**Fresh  
Stock  
Brand  
New and  
Carefully  
Manufactured  
for the  
Grade**



**ROCKBOTTOM**  
Four Lights

<b>1½ THICK</b>	<b>MONEYSAVER</b> No. 10-A-53.	<b>ECONOMY</b> No. 10-A-54.	<b>ROCKBOTTOM</b> No. 10-A-55.
Painted	Glazed Plain One Large Light	Glazed Plain Two Lights	Glazed Plain Four Lights
2'-6" x 6'-6"	<b>\$1.65</b>	<b>\$1.80</b>	<b>\$1.75</b>
2'-8" x 6'-8"	<b>2.00</b>	<b>1.90</b>	<b>1.85</b>

We are here offering three special bargains. They are not offered at rock bottom-money saving or economical prices in name only, but the bargain price is a reality in fact. While made of lower grade of lumber than used for our first quality doors the lumber is nevertheless strictly soft pine. As we must find some outlet for such lumber which will not grade up to our "A" Quality Doors, therefore we use it for the purpose of making these bargain doors at real bargain prices. None of the imperfections show on the surface, being fully and carefully covered with high grade paint and other ingredients. Please understand well that any imperfections will not in any way affect the strength or wearing quality of these doors and many users would prefer nothing else for lower priced building operations.

We wish to impress upon your mind the fact that they are strictly brand new, fresh from the machine.

### Roofing:

We have in stock at all times the very best line of Metal and Prepared Roofing Material at prices that are below all competition—see following pages.





## Four Panel O. G. Doors

White Pine—Raised Panels Both Sides

ALL THESE DOORS  
STRICTLY BRAND NEW

No. 10-A-56.

Size	Thick Inches	A Price Quality	B Price Quality	C Price Quality
2' 0"x6' 0"	1 1/8	\$1.55	\$1.50	\$1.22
2' 6"x6' 0"	"	1.89		
2' 4"x6' 4"	"	1.78	1.61	
2' 0"x6' 6"	"	1.74	1.63	
2' 4"x6' 6"	"	1.89	1.71	
2' 6"x6' 6"	"	1.89	1.71	1.35
2' 6"x6' 8"	"	1.93	1.75	
2' 8"x6' 8"	"	1.94	1.76	1.45
2' 10"x6' 10"	"	2.49	2.23	1.71
3' 0"x7' 0"	"	2.66	2.36	1.83
2' 0"x6' 0"	1 3/8	1.83	1.65	
2' 6"x6' 0"	"	2.10	1.89	
2' 8"x6' 0"	"	2.16		
2' 4"x6' 4"	"	1.96	1.79	
2' 0"x6' 6"	"	1.98	1.78	
2' 2"x6' 6"	"	2.03	1.83	
2' 4"x6' 6"	"	2.03	1.83	
2' 6"x6' 6"	"	2.10	1.89	1.52
2' 8"x6' 6"	"	2.18	1.95	
2' 0"x6' 8"	"	2.01	1.81	
2' 2"x6' 8"	"	2.06	1.87	
2' 4"x6' 8"	"	2.06	1.87	
2' 6"x6' 8"	"	2.15	1.92	
2' 8"x6' 8"	"	2.16	1.93	1.61
2' 6"x6' 10"	"	2.48	2.23	
2' 8"x6' 10"	"	2.48	2.23	
2' 10"x6' 10"	"	2.59	2.34	1.89
2' 0"x7' 0"	"	2.46	2.34	
2' 2"x7' 0"	"	2.49	2.23	
2' 4"x7' 0"	"	2.49	2.23	
2' 6"x7' 0"	"	2.50	2.24	
2' 8"x7' 0"	"	2.56	2.33	
2' 10"x7' 0"	"	2.66	2.40	
3' 0"x7' 0"	"	2.76	2.50	2.03
2' 6"x7' 6"	"	3.10	2.79	
2' 8"x7' 6"	"	3.25	2.92	
2' 6"x8' 0"	"	3.55		
2' 8"x6' 8"	1 1/2	3.26	2.94	
2' 10"x6' 10"	"	3.90	3.52	
2' 6"x7' 0"	"	3.75	3.37	
2' 8"x7' 0"	"	3.86	3.46	
2' 10"x7' 0"	"	3.98	3.59	
3' 0"x7' 0"	"	4.15	3.75	
2' 6"x7' 6"	"	4.65		
2' 8"x7' 6"	"	4.86		
2' 10"x7' 6"	"	5.12		
3' 0"x7' 6"	"	5.36		
2' 6"x8' 0"	"	5.33		
2' 8"x8' 0"	"	5.55		
3' 0"x8' 0"	"	6.20		

## Painted and Grained Doors

Four Panel O. G. Doors

No. 10-A-58.

Size	Thickness	Painted	Grained
2' 6"x6' 6"	1 3/8	\$1.30	\$1.40
2' 8"x6' 8"	"	1.37	1.47



## Five Panel O. G. Doors

White Pine—Raised Panels Both Sides

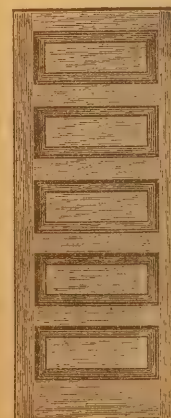
NOTHING SHOPWORN  
ABOUT OUR MILL WORK

No. 10-A-57.

Size	Thickness Inches	A Price Quality	B Price Quality
2' 6"x6' 0"	1 1/8	\$2.00	\$1.79
2' 8"x6' 8"	"	2.05	1.85
2' 0"x6' 0"	1 3/8	1.92	1.76
2' 0"x6' 6"	"	2.16	1.96
2' 2"x6' 6"	"	2.16	1.96
2' 4"x6' 6"	"	2.16	1.96
2' 6"x6' 6"	"	2.20	2.00
2' 0"x6' 8"	"	2.22	2.01
2' 2"x6' 8"	"	2.22	2.01
2' 4"x6' 8"	"	2.25	2.01
2' 6"x6' 8"	"	2.26	2.03
2' 8"x6' 8"	"	2.26	2.04
2' 10"x6' 10"	"	2.79	2.46
2' 0"x7' 0"	"	2.59	2.34
2' 2"x7' 0"	"	2.59	2.34
2' 4"x7' 0"	"	2.59	2.34
2' 6"x7' 0"	"	2.60	2.35
2' 8"x7' 0"	"	2.66	2.42
2' 10"x7' 0"	"	2.76	2.49
3' 0"x7' 0"	"	2.87	2.60
2' 6"x7' 6"	"	3.20	
2' 8"x7' 6"	"	3.34	
3' 0"x7' 6"	"	3.67	
2' 6"x8' 0"	"	3.65	
3' 0"x8' 0"	"	4.15	
2' 8"x6' 8"	1 1/2	3.34	
2' 10"x6' 10"	"	4.01	
2' 6"x7' 0"	"	3.85	
2' 8"x7' 0"	"	3.95	
2' 10"x7' 0"	"	4.09	
3' 0"x7' 0"	"	4.25	
2' 6"x7' 6"	"	4.75	
3' 0"x7' 6"	"	5.46	
2' 6"x8' 0"	"	5.42	
3' 0"x8' 0"	"	6.17	

## Five Cross Panel O. G. Doors

White Pine—Raised Panels Both Sides



SIZE	Thick	A Quality	B Quality	Thick	A Quality	B Quality
ft. in. ft. in.						
2' 0"x6' 0"	1 1/8	\$2.00	\$1.85	1 1/8		
2' 0"x6' 6"	"	2.26	2.06	"		
2' 6"x6' 6"	"	2.29	2.10	"	\$3.34	\$3.01
2' 0"x6' 8"	"	2.30	2.11	"		
2' 6"x6' 8"	"	2.35	2.12	"		
2' 8"x6' 8"	"	2.36	2.13	"	3.45	3.12
2' 6"x6' 10"	"	2.69	2.44	"		
2' 8"x6' 10"	"	2.69	2.44	"		
2' 10"x6' 10"	"	2.80	2.56	"	4.10	3.71
2' 0"x7' 0"	"	2.69	2.44	"		
2' 6"x7' 0"	"	2.70	2.45	"	3.95	3.59
2' 8"x7' 0"	"	2.77	2.51	"	4.05	3.66
3' 0"x7' 0"	"	2.97	2.70	"	4.36	3.95
2' 6"x7' 6"	"	3.30	2.98	"	4.84	4.39
3' 0"x7' 6"	"	3.76	3.41	"	5.55	5.00
3' 0"x8' 0"	"	4.25	3.85	"	6.27	5.67

No. 10-A-59



## HIGH GRADE YELLOW PINE PANEL DOORS

These doors have "A" quality soft pine stiles and rails and yellow pine panels.



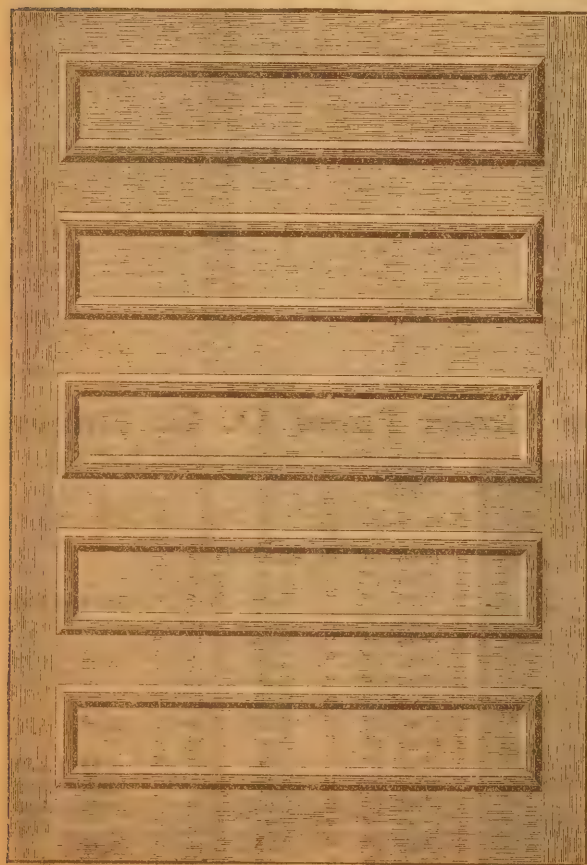
No. 10-A-60.

5 PANEL O. G. DOORS No. 10-A-60		Size	5 CROSS PANEL DOORS No. 10-A-61	
A Quality 1 1/4 Inch Thick	A Quality 1 1/4 Inch Thick		A Quality 1 1/4 Inch Thick	A Quality 1 1/4 Inch Thick
\$2.00		2'0" x 6'0"	\$2.11	
2.25		2'0" x 6'6"	2.35	
2.25		2'2" x 6'6"	2.35	
2.25		2'4" x 6'6"	2.35	
2.28		2'6" x 6'6"	2.39	
2.30		2'0" x 6'8"	2.40	
2.30		2'2" x 6'8"	2.40	
2.30		2'4" x 6'8"	2.40	
2.34		2'6" x 6'8"	2.44	
2.35	\$3.47	2'8" x 6'8"	2.47	\$3.59
2.81	4.17	2'10" x 6'10"	2.91	
2.69		2'0" x 7'0"	2.78	
2.69		2'2" x 7'0"	2.78	
2.69		2'4" x 7'0"	2.78	
2.70	4.00	2'6" x 7'0"	2.80	4.10
2.78	4.10	2'8" x 7'0"	2.87	4.21
2.87	4.25	2'10" x 7'0"	2.98	4.35
3.00	4.40	3'0" x 7'0"	3.08	4.55



No. 10-A-61.

## SINGLE SLIDING DOORS



No. 10-A-62.

Architects now specify single sliding doors instead of folding doors or pairs of sliding doors. The extra width of our single sliding door displays the beautiful grain of the panels to great advantage. This door has soft fine stiles and rails and yellow pine panels, making a fine contrast. It is very handsome and adds beauty to your home. These doors are 1 1/4 inch thick and "A" quality.

No. 10-A-62. Single Sliding Door.

Size		Thickness	Price
Width	Height		
5'-0" x 7'-0"		1 1/4 in.	\$8.75

## DOUBLE SLIDING DOORS

For Folding and Double Sliding Doors, use our high grade yellow pine panel doors as shown above, No. 10-A-61.

See page 46 for Folding and Double Sliding Door Astragals.

For Sliding Door hangers, track and locks, see Hardware section.



# ARTISTIC FRONT WINDOWS

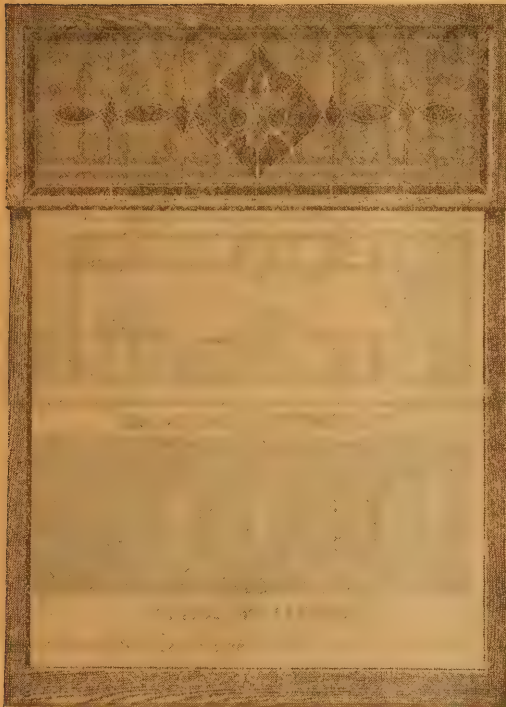
## BEAUTIFUL COMBINATIONS

### HIGH GRADE WORKMANSHIP AND QUALITY

We show a line of cottage front windows at prices that positively defy competition. The line is sufficiently large to enable one to make a selection to meet almost any requirement.

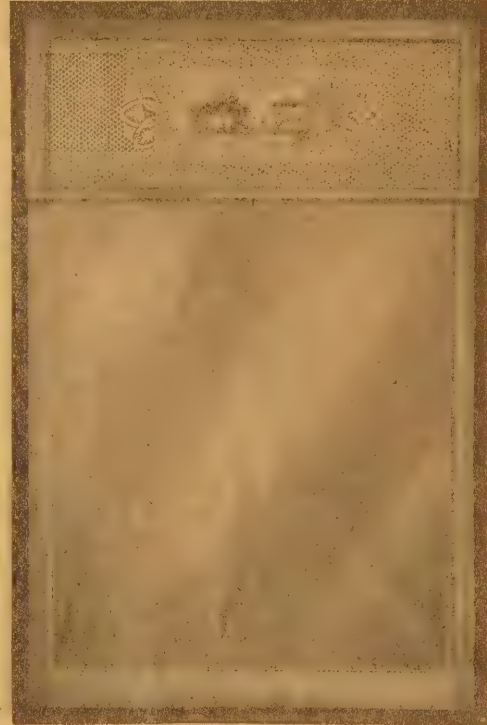
A beautiful window like a beautiful front door adds much to the beauty of the house and one does not usually realize this until pains are taken to note the actual difference.

Our cottage front windows are not only beautiful in design but are of the very best of manufacture and glass and combinations effected are most pleasing. To those who desire to invest the amount of money required we highly recommend such as our Aristocrat, Ruby and Emblem. However, for a more moderate price window there is our Plainview, Woodstock and Old Favorite as well as the various lace designs all of which have given great satisfaction and are very popular.



**RUBY**

Top sash glazed leaded colored art; bottom sash glazed selected D. S. glass.

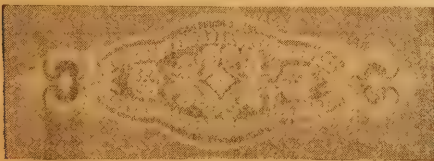


**YELLOWSTONE**



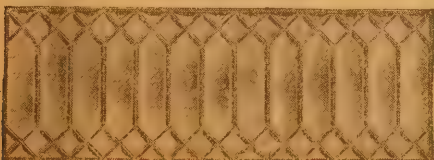
**EMBLEM**

Top sash glazed colored art; bottom sash glazed selected D. S. glass.



**BRUSSELS ART**

Top sash glazed as illustrated; bottom sash glazed selected D. S. glass.



**ARISTOCRAT**

Glazed leaded bevel plate.

Here are some beauties. The variety of glass designs offered should appeal to the most artistic eye, regardless of the price. Our prices are practically the lowest for the same quality of material offered. The price named for the different designs cover one complete window, the bottom sash glazed with double strength "A" quality, top sash as illustrated.

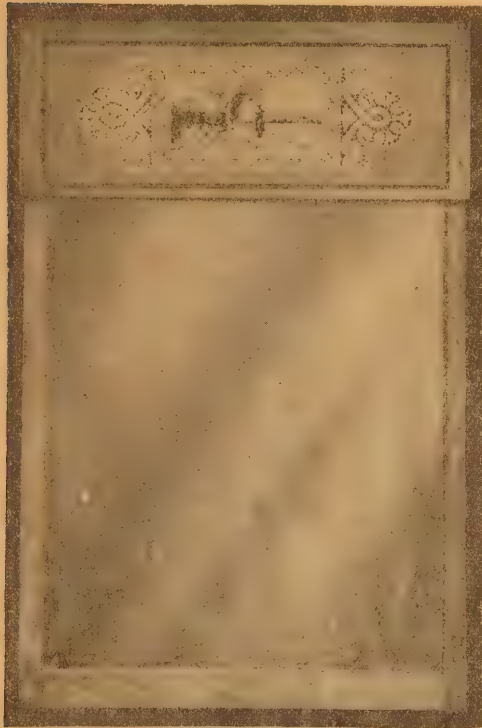
Please note, while we show the design of glass only in our "Aristocrat," "Brussels Art" and "Emblem" window, the price covers one complete window, bottom and top sash, the bottom sash containing clear double strength "A" glass.

	Glass Size Bottom Sash	Glass Size Top Sash	Ruby No. 10-A-67	Em- blem No. 10- A-68	Brus- sels Art No. 10- A-69	Aristo- crat No. 10-A-70	Yellow- stone No. 10-A-66
3'8"x5'2"	40"x42"	40"x14"	\$6.25	\$6.35	\$4.95	\$ 9.00	\$4.95
3'8"x5'6"	40"x46"	40"x14"	6.45	6.55	5.10	10.00	5.10
4'0"x5'2"	44"x40"	44"x16"	7.20	7.30	5.30	11.10	5.30
4'0"x5'6"	44"x44"	44"x16"	7.95	8.05	5.56	11.60	5.56
4'0"x5'10"	44"x48"	44"x16"	8.25	8.35	6.40	12.25	6.40



# ARTISTIC FRONT WINDOWS

## BEAUTIFUL COMBINATIONS.



FAIRVIEW, No. 10-A-63.

Top sash glazed with Portrait Lace Design.  
Bottom sash glazed selected double strength glass.

Our WOODSTOCK and OLD FAVORITE designs present the same views as our Aristocrat design, with the exception that the top sash contains wood bars instead of lead bars.

Our CRYSTAL design is worked out on the same principle as our high priced Aristocrat Window; contains the same high-grade workmanship, with the exception that the glass is of crystal clearness and double strength, instead of beveled plate. This design has proven a great popular seller, as it practically has the effect of some of the higher priced designs now on the market.



WOODSTOCK, No. 10-A-64.



OLD FAVORITE, No. 10-A-65.



CRYSTAL, No. 10-A-66.

Outside Measure.	Glass Size Bottom Sash.	Glass Size Top Sash.	Fairview No. 10-A-63	Woodstock No. 10-A-64.	Old Favorite No. 10-A-65.	Crystal No. 10-A-66.
3.8x5.2	40x42	40x14	\$4.95	\$7.75	\$5.00	\$5.00
3.8x5.6	40x46	40x14	5.10	8.20	5.45	5.25
4.0x5.2	44x40	44x16	5.30	8.60	5.85	6.00
4.0x5.6	44x44	44x16	5.66	9.00	6.25	6.15
4.0x5.10	44x48	44x16	6.40	9.20	6.45	6.90



PLAINVIEW, No. 10-A-61.

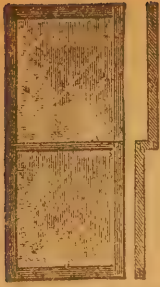
Our PLAINVIEW design is properly named, because it affords a clear and plain view over the entire window.

Both top and bottom sash on all windows contained on this page are glazed with double strength "A" quality glass.

### PRICE OF PLAINVIEW.

Outside Measure.	Glass Size Bottom Sash.	Glass Size Top Sash.	Price for Both.
3.8 x 5.2	40 x 40	40 x 16	\$3.25
3.8 x 5.6	40 x 44	40 x 16	3.60
3.8 x 5.10	40 x 48	40 x 16	3.80
3.8 x 6.2	40 x 50	40 x 18	4.00
4.0 x 5.2	44 x 40	44 x 16	3.95
4.0 x 5.6	44 x 44	44 x 16	4.25
4.0 x 5.10	44 x 46	44 x 18	4.40
4.0 x 6.2	44 x 50	44 x 18	5.25
4.0 x 6.6	44 x 50	44 x 22	5.60
4.4 x 5.2	48 x 40	48 x 16	4.40
4.4 x 5.6	48 x 42	48 x 18	4.70
4.4 x 5.10	48 x 46	48 x 18	5.45
4.4 x 6.2	48 x 50	48 x 18	6.05
4.6 x 5.2	50 x 40	50 x 16	4.60
4.6 x 5.6	50 x 44	50 x 16	5.50
4.6 x 5.10	50 x 48	50 x 16	6.05
4.6 x 6.2	50 x 50	50 x 18	6.25
4.6 x 6.6	50 x 50	50 x 22	6.60
4.8 x 5.2	52 x 40	52 x 16	5.40
4.8 x 5.6	52 x 42	52 x 18	5.75
4.8 x 5.10	52 x 46	52 x 18	6.30
4.8 x 6.2	52 x 48	52 x 20	6.60
5.0 x 5.6	56 x 44	56 x 16	6.95
5.0 x 5.10	56 x 48	56 x 16	6.55
5.0 x 6.2	56 x 48	56 x 20	6.90





## Two Light Check Rail Windows

1½ inches Thick

No. 10-A-71.

Size of Glass	Price per Window—Glazed		Size of Window
	Single Strength	Double Strength	
16x16	\$0.67	\$0.83	1—8½x3—2
16x18	.67	.83	3—6
16x20	.67	.83	3—10
16x24	.70	.92	4—6
16x26	.80	1.06	4—10
16x28	.82	1.11	5—2
16x30	.85	1.17	5—6
16x32	.91	1.25	5—10
18x18	.72	.91	1—10½x3—6
18x20	.72	.91	3—10
18x22	.78	1.01	4—2
18x24	.79	1.05	4—6
18x26	.84	1.09	4—10
18x28	.88	1.21	5—2
18x30	.89	1.23	5—6
18x32	.95	1.31	5—10
20x20	.79	1.02	2—0½x3—10
20x22	.82	1.05	4—2
20x24	.82	1.05	4—6
20x26	.86	1.09	4—10
20x28	.92	1.16	5—2
20x30	.96	1.23	5—6
20x32	1.07	1.36	5—10
20x34	1.17	1.48	6—2
20x36	1.23	1.58	6—6
22x22	.87	1.11	2—2½x4—2
22x24	.87	1.11	4—6
22x26	.90	1.14	4—10
22x28	.96	1.23	5—2
22x30	1.05	1.34	5—6
22x32	1.13	1.46	5—10
22x34	1.28	1.61	6—2
22x36	1.30	1.73	6—6
24x20	.88	1.16	2—4½x3—10
24x22	.91	1.20	4—2
24x24	.93	1.30	4—6
24x26	.96	1.23	4—10
24x28	1.05	1.34	5—2
24x30	1.11	1.43	5—6
24x32	1.20	1.50	5—10
24x34	1.30	1.64	6—2
24x36	1.32	1.65	6—6
24x38	1.66	2.07	6—10
24x40	1.70	2.12	7—2
26x22	1.02	1.36	2—6½x4—2
26x24	1.02	1.36	4—6
26x26	1.09	1.41	4—10
26x28	1.18	1.49	5—2
26x30	1.25	1.60	5—6
26x32	1.29	1.64	5—10
26x34	1.50	1.90	6—2
26x36	1.51	1.91	6—6
26x38	1.66	2.07	6—10
26x40	1.70	2.12	7—2
28x28	1.25	1.60	2—8½x5—2
28x30	1.26	1.61	5—6
28x32	1.48	1.88	5—10
28x34	1.58	1.91	6—2
28x36	1.64	2.10	6—6
28x38	1.92	2.30	6—10
28x40	1.97	2.36	7—2
30x24	1.23	1.65	2—10½x4—6
30x26	1.36	1.80	4—10
30x28	1.36	1.81	5—2
30x30	1.55	1.97	5—6
30x32	1.62	2.08	5—10
30x34	1.66	2.12	6—2

Size of Glass	Price per window—Glazed		Size of Window
	Single Strength	Double Strength	
30x36	1.67	2.13	6—6
30x38	1.96	2.46	2—10½x6—10
30x40	2.09	2.64	7—2
32x24	1.40	1.73	3—0½x4—6
32x26	1.49	1.86	4—10
32x28	1.70	2.13	5—2
32x30	1.93	2.31	5—6
32x32		2.35	5—10
32x34		2.40	6—2
32x36		2.66	6—6
32x38		2.85	6—10
32x40		3.09	7—2
34x24	1.59	1.89	3—2½x4—6
34x26	1.79	2.13	4—10
34x28	1.83	2.16	5—2
34x30	1.97	2.36	5—6
34x32		2.40	5—10
34x34		2.70	6—2
34x36		2.85	6—6
36x24	1.68	1.97	3—4½x4—6
36x26	1.88	2.21	4—10
36x28	2.05	2.43	5—2
36x30	2.06	2.44	5—6
36x32		2.73	5—10
36x34		2.95	6—2
36x36		2.96	6—6
40x28		2.50	3—8½x5—2
40x30		2.76	5—6
40x32		3.00	5—10
40x34		3.01	6—2
40x36		3.64	6—6
40x38		3.66	6—10
40x40		3.70	7—2



## Four Light Check Rail Windows

1½ inches Thick

No. 10-A-72.

Size of Glass	Glazed		Size of Window
	Single Strength	Double Strength	
10x20	\$0.78		2—1x3—10
10x22	.80		4—2
10x24	.81		4—6
10x26	.87		4—10
10x28	.94		5—2
10x30	1.05		5—6
10x32	1.15		5—10
12x20	.80		2—5x3—10
12x22	.90		4—2
12x24	.93		4—6
12x26	.98		4—10
12x28	1.04		5—2
12x30	1.14		5—6
12x32	1.21		5—10
12x34	1.43		6—2
12x36	1.43		6—6
12x38	1.64		6—10
12x40	1.79		7—2
14x20	.96		2—9x3—10
14x22	1.04		4—2
14x24	1.03		4—6
14x26	1.14		4—10
14x28	1.19		5—2
14x30	1.28		5—6
14x32	1.36		5—10
14x34	1.63		6—2
14x36	1.63		6—6
14x38	1.84		6—10
14x40	1.89		7—2
15x30	1.43		2—11x5—6
15x32	1.51		5—10

## Four Light Windows Plain Rail

1½ inches Thick.

No. 10-A-73.

Size of Glass	Thickness	Price per window Glazed	Size of Window
12x20	1½	\$0.80	2—5x3—10
12x24	"	.93	4—6
12x26	"	.98	4—10
12x28	"	1.84	5—2

## Eight Light Windows Check Rail

No. 10-A-74.

Size of Glass	Thickness	Price per Window Glazed	Size of Window
8x10	1½	\$0.71	1—9x3—9½
8x12	"	.77	5—2
9x12	"	.79	1—11x4—6
9x14	"	.89	5—2
10x12	"	.81	2—1x4—6
10x14	"	.90	5—2
10x16	"	1.06	5—10
10x18	"	1.30	6—6
12x14	"	1.03	2—5x5—2
12x16	"	1.14	5—10
12x18	"	1.29	6—6
14x16	"	1.34	2—9x5—10
14x18	"	1.54	6—6
14x20	"	1.69	7—2

## Eight Light Windows Plain Rail

No. 10-A-75.

Size of Glass	Thickness	Price per Window Glazed	Size of Window
8x10	1½	\$0.63	1—8½x3—9½
8x12	"	.73	4—6
9x12	"	.73	1—10½x4—6
9x14	"	.86	5—2
10x12	"	.77	2—0½x4—6
10x14	"	.87	5—2
10x16	"	1.02	5—10
12x14	"	.99	2—4½x5—2
12x16	"	1.11	5—10
12x18	"	1.28	6—6



## Twelve Light Check Rail Windows

No. 10-A-76.

Size of Glass	Thickness	Price per Window Glazed	Size of Window
8x10	1½	\$0.83	2—4½x3—10
8x12	"	.97	4—6
8x14	"	1.14	5—2
9x12	"	1.01	2—7½x4—6
9x14	"	1.19	5—2
9x16	"	1.34	5—10
10x12	"	1.11	2—10½x4—6
10x14	"	1.23	5—2
10x16	"	1.41	5—10
10x18	"	1.69	6—6
12x14	"	1.63	3—4½x5—2
12x16	"	1.79	5—10
12x18	"	1.95	6—6
12x20	"	2.25	7—2



## 12 Light Windows Plain Rail

No. 10-A-77.

Size of Glass	Thick- ness	Price per Window Glazed	Size of Window
7"x 9"	1 1/8	\$0.79	2'-1"x3'-5 1/2"
8"x10"	"	.80	2'-1"x3'-9 1/2"
8"x12"	"	.92	2'-" 4'-6"
8"x14"	"	1.14	2'-" 5'-2"
9"x12"	"	.98	2'-7"x4'-6"
9"x14"	"	1.16	2'-" 5'-2"
9"x15"	"	1.30	2'-" 5'-6"
10"x12"	"	1.04	2'-10"x4'-6"
10"x14"	"	1.16	" 5'-2"
10"x15"	"	1.30	" 5'-6"
10"x16"	"	1.34	" 5'-10"
10"x18"	"	1.51	" 6'-6"
12"x14"	"	1.62	3'-4"x5'-2"
12"x16"	"	1.78	" 5'-10"

## 15 Light Windows Plain Rail

No. 10-A-78.

Size of Glass	Thick- ness	Price per Window Glazed	Size of Window
8"x10"	1 1/8	\$1.04	2'-4"x4'-7 1/2"
10"x12"	"	1.35	2'-10"x5'-6"

## 18 Light Windows Plain Rail

No. 10-A-79.

Size of Glass	Thick- ness	Price per Window Glazed	Size of Window
8"x10"	1 1/8	\$1.28	2'-4"x5'-4 1/2"
10"x12"	"	1.66	2'-10"x6'-6"

## Cellar Sash 2 Lights

No. 10-A-81.

Size of Glass	Thick- ness	Price Single	Price Double	Size of Sash
10"x12"	1 1/8	\$0.42	\$0.66	2'-1"x16"
10"x14"	"	.44	.70	" 18"
10"x16"	"	.50	.80	" 20"
10"x18"	"	.54	.86	" 22"
10"x20"	"	.62	1.00	" 24"
12"x12"	"	.46	.72	2'-5"x16"
12"x14"	"	.51	.83	" 18"
12"x16"	"	.54	.88	" 20"
12"x18"	"	.57	.94	" 22"
12"x20"	"	.66	1.04	" 24"
14"x16"	"	.62	1.02	2'-9"x20"
14"x18"	"	.65	1.08	" 22"
14"x20"	"	.74	1.19	" 24"



Two Lights.



Three Lights.

## Cellar Sash 3 Lights

No. 10-A-82.

Size of Glass	Thick- ness	Price Single	Price Double	Size of Sash
7"x 9"	1 1/8	\$0.39	\$0.60	2'-1"x1' 1"
8"x10"	"	.41	.64	2'-4"x1' 2"
8"x12"	"	.45	.71	" 1' 4"
8"x14"	"	.50	.80	" 1' 6"
9"x12"	"	.47	.74	2'-7"x1' 4"
9"x14"	"	.50	.80	" 1' 6"
9"x16"	"	.58	.90	" 1' 8"
10"x12"	"	.52	.80	2'-10"x1' 4"
10"x14"	"	.56	.90	" 1' 6"
10"x16"	"	.63	1.01	" 1' 8"
12"x12"	"	.69	.87	'3- 4"x1' 4"
12"x14"	"	.76	1.16	" 1' 6"
12"x16"	"	.80	1.23	" 1' 8"
12"x18"	"	.87	1.35	" 1' 10"

## Stall Sash 1 Light

1 1/2 in. Thick

No. 10-A-83.



Size of Glass	Price per Sash Glazed	Size of Sash
18"x20"	\$0.57	1'-10"x2' 1"
20"x20"	.61	2'-0"x2' 1"
20"x24"	.68	2' 5"
24"x24"	.78	2'-4"x2' 5"
24"x28"	.84	2' 9"

## Attic Sash 1 Light

3 in. Bottom Rail,  
1 1/2 in. Thick.

No. 10-A-84.

## New Two Light Pantry Windows

One Light Wide Check Rail, 1 1/2 in. Thick

No. 10-A-85.

Size of Glass	Price per window Glazed	Size of Window
12"x20"	\$0.65	1'-4 1/2"x3' 10"
12"x24"	.68	" 4' 6"
12"x26"	.78	" 4' 10"
12"x28"	.80	" 5' 2"
12"x30"	.83	" 5' 6"
12"x32"	.89	" 5' 10"
12"x34"	1.06	" 6' 2"
12"x36"	1.08	" 6' 6"
14"x20"	.66	1'-6 1/2"x3' 10"
14"x24"	.69	" 4' 6"
14"x26"	.79	" 4' 10"
14"x28"	.81	" 5' 2"
14"x30"	.84	" 5' 6"
14"x32"	.90	" 5' 10"
14"x34"	1.06	" 6' 2"
14"x36"	1.09	" 6' 6"

## Barn Sash

Four Lights, 1 1/2 in. Thick.

No. 10-A-86.

Size of Glass	Price per Sash Glazed	Size of Glass	Price per Sash Glazed
8"x10"	\$0.45	10"x12"	\$0.56
8"x12"	.53	10"x14"	.60
9"x12"	.53	10"x16"	.76
9"x14"	.57	12"x14"	.76
9"x16"	.71	12"x16"	.83



## Barn Sash

1 1/2 in. Thick

[No. 10-A-87.



Size of Glass	Price per Sash Glazed
8"x10"	\$0.64
9"x12"	.75
10"x12"	.82
10"x14"	.90

## Open Hot Bed Sash

Size of Sash, 3x6 ft. 1 1/2 in. Thick.

Made for 4 rows of glass.

Clear Western soft pine.

No. 10-A-88.

Single lots.....\$0.95  
In lots of one  
dozen or more, .90

Louisiana  
Red Cypress

Single lots.....\$1.00  
Lots of one dozen  
or more......95

FOR GLAZED SASH  
SEE OPPOSITE PAGE



## Transom Sash 1 Light

No. 10-A-80.

Size of Opening	Thickness	Price 1 Light
2' 6"x10"	1 1/8	\$0.38
2' 6"x12"	"	.38
2' 6"x14"	"	.42
2' 6"x16"	"	.46
2' 6"x18"	"	.50
2' 6"x20"	"	.60
2' 8"x10"	"	.40
2' 8"x12"	"	.40
2' 8"x14"	"	.46
2' 8"x16"	"	.48
2' 8"x18"	"	.54
2' 8"x20"	"	.70
2' 10"x10"	"	.47
2' 10"x12"	"	.47
2' 10"x14"	"	.47
2' 10"x16"	"	.54
2' 10"x18"	"	.55
2' 10"x20"	"	.64
3' 0"x12"	"	.54
3' 0"x14"	"	.54
3' 0"x16"	"	.59
3' 0"x18"	"	.64
3' 0"x20"	"	.71



# MONEY IN HOT-BEDS

The man who uses Hot Bed Sash is far ahead. Not only as a matter of making money in a season when other work is not so pressing but also as a matter of better living as far as table supplies are concerned. Think of what it means to you. You can have lettuce, vegetables, etc. or strawberries long before the man who does not use Hot Bed Sash and it is an easy matter to dispose of same at positively the highest market prices. By carefully reading the matter following on this page you will get a very good idea of how simple the matter of running a Hot Bed Sash really is. Any boy can do it and returns from same will be astonishing.



**HOW TO BUILD IT.** At right hand top of this page we give an illustration showing how to build Hot Bed Sash. It is so simple that words are almost unnecessary. Anyone carefully observing the drawing can readily complete the job of installing the subframe, top frame and sash.

**LOCATION.** Select a location with good sub-soil drainage, face south, preferably on the south side of your house, barn or other out-buildings so that it will be protected from the north winds and where it will get the full benefit of the sun's rays.

**SIZE.** The standard size Hot Bed Sash is 3 ft. x 6 ft. and there are more of this size sash used than nearly all other sizes put together. A hot bed can be made practically any length depending upon the number of sash used. It is generally considered that a hot bed about 15 feet long is most convenient.

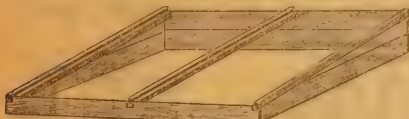
**CONSTRUCTION.** Dig a pit about 2 ft. deep and as long as you wish to make the Hot Bed. Board up the side with lumber, material of ample thickness preferred especially for the ground or sub-frame. Place manure in the pit, same must be rich and fresh containing plenty of straw, and is to be tamped down firmly in layers until the total depth is about 18 inches or 20 inches. It is well to keep the manure in a pile and turn over every day or so for about a week so as to become thoroughly fermented and heated. This should be done before placing in the pit. From the front to the back of the Hot Bed Sash there should be a slope of 4 inches or 5 inches, the slope being toward the south, of course, as the Hot Bed Sash will face south and being inclined as shown in illustration, it is also necessary to incline the manure and soil that is under it, otherwise the distance from the glass to the soil will not be the same and the plants will not grow uniform. After the manure is placed in, put the Hot Bed Sash on. Leave them for 3 or 4 days and then take rich soil and cover it. Let it stand for 5 or 6 days or longer depending upon the temperature when same is made to permit the soil to get warm and the weeds to start sprouting. The soil should be a depth of about 6 inches, making the distance between the top of the soil and the glass 4 inches which may settle down so that the distance will be 6 or 7 inches. Make your Hot Bed about two weeks before seeding. Sash must be raised a little every morning for ventilation. Do not allow any cold air to blow directly on the plants. At night close the sash to retain the heat.

Ventilation is Very Important and Must be Attended to Daily.

## SAMPLE OUTFIT \$7.78

Consists of Top-Frame, Sub-Frame and Sash, All Ready to Put Together. Shipped "Knocked Down," ready for use.

Below we show a complete sample outfit. Buy this and give Hot Beds a trial. You will be surprised at the excellent results and will never be without them. Material will come to you properly packed, SAFE DELIVERY guaranteed. Everything cut to lengths. Easily put together or taken down. A BOY CAN DO THE JOB. Order today and start at once.



Top Frame Louisiana Red Cypress. Made of 1 inch Cypress or Soft Pine. Cut to exact size and lengths as shown. Depth 8" in front, 16" in back.

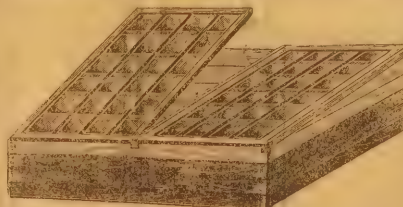


Ground or Sub-Frame Made from Louisiana Red Cypress, or Soft Pine, inch stock, cut to lengths. Cleats and screws furnished. Depth all-around 18 inches.



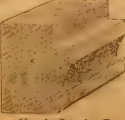
Inside Sash Bar This cut shows an inside sash bar. Made of Clear Cypress and furnished in specified lengths any lengths desired. No. 10-A-8435 — Size 1 1/2 x 2 1/2 inches. Price per 100 running feet. **\$2.10**

**Our \$7.78 Outfit.** This cut shows our special outfit complete as it appears when put together. It consists of Top Frame, Sub Frame shown in opposite cuts and the Hot Bed Sash put in place; all screws furnished by us.



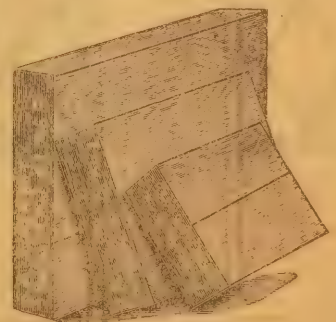
Size, 6 ft. x 6 ft. square. Depth in front 26 in., depth in rear 34 in. Material as described opposite.

Nb. 10-A-GM89: Hot bed Outfit complete as above. **\$7.78**



End Sash Bar Cut shows an end sash bar. This is used at each end and has but one square shoulder for the Sash to rest upon. Made of Clear Cypress. Stock furnished any length desired. No. 10-A-8436 — Size 1 1/2 x 5 1/2 inches. Price per 100 running feet. **\$1.85**

## Hot Bed Glass.



Hot-Bed Glass Standard Quality. Packed in strong boxes. Large stock on hand. Safe delivery guaranteed.

Size Inches.	Price Per Box.	No. of Lights in Box.
7x9	\$2.20	115
8x10	2.20	99
9x12	2.20	67
10x14	2.20	52





## Storm Sash. Two Lights.

1½"

No. 10-A-89.

Size of Glass	Price Glazed Single Strength	Price Glazed Double Strength	Size of Glass	Price Glazed Single Strength	Price Glazed Double Strength
16x24	\$0.70	\$0.92	22x26	\$0.90	\$1.14
16x26	.80	1.06	22x28	.98	1.23
16x28	.82	1.11	22x30	1.05	1.34
16x30	.85	1.17	22x32	1.13	1.46
16x32	.91	1.25	22x34	1.28	1.61
18x24	.79	1.05	22x36	1.30	1.73
18x26	.84	1.09	24x24	.92	1.20
18x28	.88	1.21	24x26	.96	1.23
18x30	.89	1.23	24x28	1.05	1.34
18x32	.95	1.31	24x30	1.11	1.43
20x20	.79	1.02	24x32	1.20	1.50
20x22	.82	1.05	24x34	1.30	1.64
20x24	.82	1.05	24x36	1.32	1.65
20x26	.86	1.09	26x28	1.18	1.49
20x28	.92	1.16	26x30	1.25	1.60
20x30	.96	1.23	26x32	1.29	1.64
20x32	1.07	1.36	28x30	1.26	1.66
20x34	1.17	1.48	28x32	1.48	1.88
22x24	.87	1.11			

Ventilators in Bottom, 10c extra.

## No. 10-A-90.

Size Bottom Glass Inches	Size Top Glass Inches	Price Glazed D. S.
40x40	40x14	\$2.88
40x40	40x16	2.98
40x44	40x16	3.27
44x44	44x16	3.47
44x44	44x18	3.62
44x50	44x18	3.87

Ventilators in Bottom, 10c extra.



## Storm Sash. Four Lights.

No. 10-A-91.

Size of Glass	Price	Size of Glass	Price
10x20	\$0.72	12x26	\$0.93
10x22	.80	12x28	1.04
10x24	.81	12x30	1.14
10x26	.87	12x32	1.21
10x28	.94	12x34	1.46
10x30	1.04	12x36	1.46
10x32	1.16	14x26	1.14
12x20	.80	14x28	1.19
12x22	.90	14x30	1.23
12x24	.93	14x32	1.36

Ventilators in Bottom, 10c extra.

## Storm Sash 12 Lights.

1½ Inch Thick.

No. 19-A-92.

Size of Glass	Price Glazed
8x10	\$0.83
9x12	1.01
9x14	1.19
10x12	1.20
10x14	1.23

Ventilators in Bottom, 10c extra.



## Storm Sash. Eight Lights.

1½ Inch Thick

No. 10-A-93.

Size of Glass	Price Glazed
8x10	\$0.71
9x12	.79
10x12	.81
10x14	.90
10x16	1.06
12x14	1.03
12x16	1.14

Ventilators in Bottom, 10c extra.

## BLINDS. OUTSIDE BLINDS.

ROLLING SLATS.

No. 10-A-94.

FOR TWO LIGHT WINDOWS.  
1½ Inch Thick.

Size of Glass	Price per Pair	Size of Glass	Price per Pair
20x24	\$1.12	24x40	\$2.09
20x28	1.21	26x28	1.31
20x30	1.31	26x30	1.39
20x32	1.35	26x32	1.42
20x34	1.69	26x34	1.76
20x36	1.80	26x36	1.90
22x24	1.12	26x38	2.02
22x26	1.24	26x40	2.17
22x28	1.26	28x28	1.27
22x30	1.31	28x30	1.39
22x32	1.35	28x32	1.42
22x34	1.69	28x34	1.76
22x36	1.80	28x36	1.90
24x24	1.12	28x38	2.02
24x26	1.24	28x40	2.17
24x28	1.26	30x30	1.76
24x30	1.31	30x32	1.75
24x32	1.35	30x34	1.79
24x34	1.69	30x36	1.94
24x36	1.80	30x38	2.06
24x38	1.94	30x40	2.24

FOR TWO LIGHT PANTRY WINDOWS.  
1½ Inch Thick.

Size of Glass	Price	Size of Glass	Price
12x24	\$0.77	14x26	\$0.92
12x28	.83	14x28	.97
12x30	.86	14x30	1.00
12x32	1.02	14x32	1.05
12x34	1.11	14x36	1.27
14x24	.80		

FOR FOUR LIGHT WINDOWS. 1½ Inch Thick.

Size of Glass	Price	Size of Glass	Price
12x20	\$1.00	14x24	\$1.24
12x24	1.12	14x26	1.26
12x26	1.24	14x28	1.27
12x28	1.26	14x30	1.29
12x30	1.31	14x32	1.42
12x32	1.35	14x34	1.76
12x34	1.69	14x36	1.90
12x36	1.80	14x38	2.02
12x38	1.94	14x40	2.17
12x40	2.07		

FOR 8 LIGHT WINDOWS. 1½ Inch Thick.

Size of Glass	Price	Size of Glass	Price
8x10	\$1.01	10x14	\$1.26
10x12	1.12	10x16	1.35

FOR 12 LIGHT WINDOWS. 1½ Inch Thick.

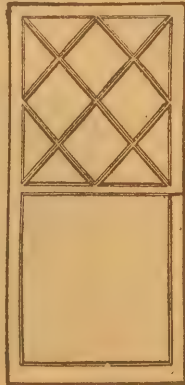
Size of Glass	Price	Size of Glass	Price
8x10	\$1.01	10x14	\$1.61
9x12	1.24	10x16	1.85
9x14	1.26	10x18	1.94
9x16	1.31	10x20	2.24
10x12	1.45		

## Special Design Windows

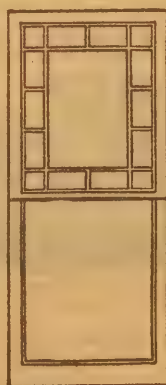
That excel others in artistic appearance, honest construction, distinctive style and reasonable price.



No. 10-A-1440.

Add 55c.  
(See note.)

No. 10-A-1500.

Add 65c.  
(See note.)

No. 10-A-1340.

Add 90c.  
(See note.)

No. 10-A-1410.

Add \$1.10.  
(See note.)

No. 10-A-1400.

Add \$1.30.  
(See note.)

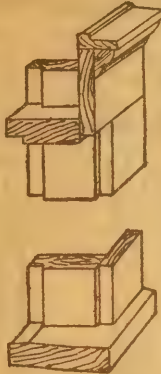
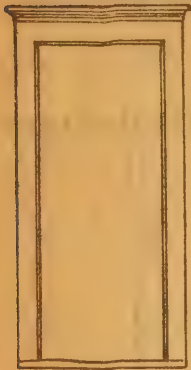
Note—THE ABOVE PRICES ARE TO BE ADDED to the regular prices of two light check rail windows No. 10-A-71 AS SHOWN ON PAGE NO. 39, and are good only for sizes up to and including 28 inch wide glass.  
The above designs are not usually carried in stock. Ten days from receipt of order should be allowed for shipment.

## All Millwork Quoted You in this Catalog Is Brand New



# OUTSIDE DOOR AND WINDOW FRAMES

## Plain Drip-Cap Door Frames.



**DOOR FRAME. No. 10-A-99.**

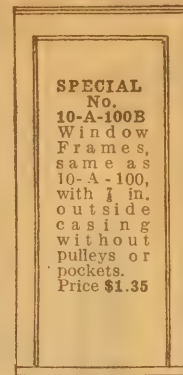
Outside door frame No. 10-A-99 includes everything complete as shown; outside casing,  $1\frac{1}{2} \times 4\frac{1}{2}$  inch oak sill,  $1\frac{1}{2} \times 7\frac{1}{2}$  inch rabbeted jamb,  $1\frac{1}{2} \times 5\frac{1}{2}$  inch. Made from sound, selected clear face yellow poplar, bright clear stock. Guaranteed first-class in every particular. Outside door frames F. O. B. Chicago, No. 10-A-99, including everything complete, oak sill as shown, bundled for shipment in the knock-down, .....\$1.85

## Plain Drip-Cap Window Frames.



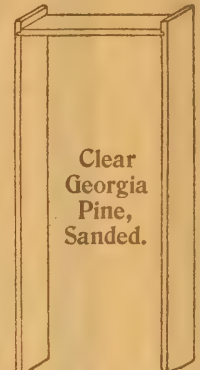
Window frame No. 10-A-100 includes everything complete on outside casing  $1\frac{1}{2} \times 4\frac{1}{2}$  inch, main sill  $1\frac{1}{2} \times 3\frac{1}{2}$  in., sub sill  $\frac{1}{2} \times 5\frac{1}{2}$  in., jambs, including stile and blind stops,  $5\frac{1}{2}$  in. wide, parting strip, etc. Made from sound selected clear face yellow poplar, bright clear stock. Guaranteed first-class in every particular. Window frames F. O. B. Chicago, No. 10-A-100, including everything as described, complete bundled for shipment in the knock-down, with pulleys, .....\$1.65

All usual size window frames carried in stock and all take the one price. Any carpenter can put a knock-down frame together in ten minutes.



**SPECIAL No. 10-A-100B Window Frames, same as 10-A-100, with 1 in. outside casing without pulleys or pockets. Price \$1.35**

## Inside Door Jambs.



Clear Georgia Pine, Sanded.

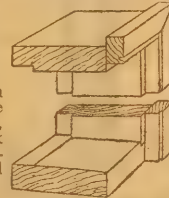
## INSIDE DOOR JAMBS. For Frame Buildings.

No. 10-A-101. Inside Jambs for 2x4 studding, opening 3x7 or smaller, .....\$0.50

No. 10-A-102. For Jambs with transom heads add, .....\$0.25

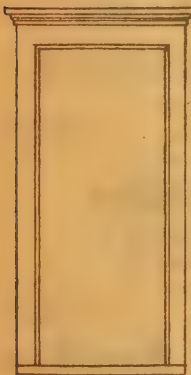
## Cellar Frames.

Plank cellar sash frames are made with a  $1\frac{1}{2} \times 5\frac{1}{2}$  inch jamb,  $1\frac{1}{2} \times 1\frac{1}{2}$  clear brick moulding. Knocked down, bundled for shipment.



**No. 10-A-107.** Plank cellar sash frame, size 3 ft. 4 inch by 2 ft. or smaller opening. Price .....\$1.00

## Crown Mould Cap Door Frames



This frame has  $1\frac{1}{2} \times 3$  inch Drip Cap,  $1\frac{1}{2} \times 7$  inch head casing,  $1\frac{1}{2} \times 4\frac{1}{2}$  inch outside casing,  $2\frac{1}{2}$  inch crown moulding,  $1\frac{1}{2} \times 5\frac{1}{2}$  inch jamb, rabbeted to suit thickness of door, and a  $1\frac{1}{2}$  inch oak sill.

**No. 10-A-103.** Plain Crown mould cap outside door frame for frame buildings with 2x4 studding, standard size. Knocked down and carefully bundled as stated above. For door 3 ft. by 7 ft. or smaller opening. Price, .....\$2.00

**No. 10-A-104.** Door frame same as preceding number except with transom head. Price, .....\$2.40

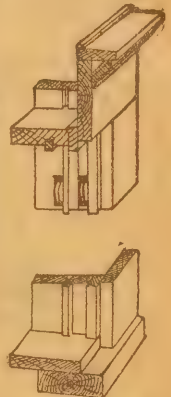


## Crown Mould Cap Window Frames

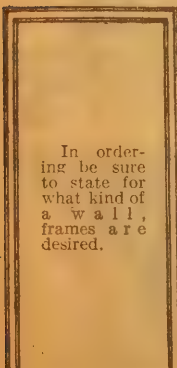


This frame has  $1\frac{1}{2} \times 3$  inch Drip Cap,  $2\frac{1}{2}$  inch Crown moulding,  $1\frac{1}{2} \times 7$  inch head casing,  $1\frac{1}{2} \times 4\frac{1}{2}$  inch outside casing,  $1\frac{1}{2} \times 5\frac{1}{2}$  inch jamb, including blind stop,  $\frac{1}{2} \times 1\frac{1}{2}$  inch blind stop,  $\frac{1}{2} \times 1\frac{1}{2}$  inch parting stop,  $\frac{1}{2} \times 5\frac{1}{2}$  inch sub sill,  $1\frac{1}{2} \times 3\frac{1}{2}$  main sill including pockets and pulleys.

**No. 10-A-105.** Plain Crown mould cap window frame for frame buildings with 2x4 studding, standard size. Knocked down and carefully bundled for shipment. Price, with pulleys, .....\$1.80



## Door Frames for Stone, Cement Block or Brick Wall



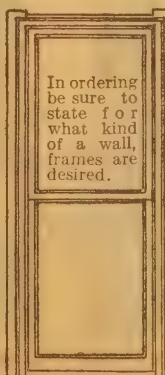
In ordering be sure to state for what kind of a wall, frames are desired.

This frame has a  $1\frac{1}{2} \times 1\frac{1}{2}$  clear brick moulding and a  $1\frac{1}{2} \times 7\frac{1}{2}$  inch jamb; good, sound and practically clear, only occasional defects being allowable. No sill furnished with this frame.

**No. 10-A-106.** Door frame for stone or brick buildings. Knocked down and carefully bundled for shipment. As stated above, for door 3 ft. by 7 ft. or smaller opening. Price, .....\$1.90



## Window Frames FOR STONE, CEMENT BLOCK OR BRICK WALL.

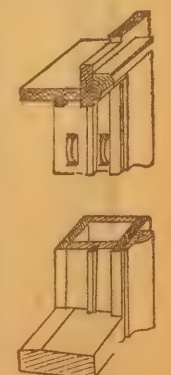


In ordering be sure to state for what kind of a wall, frames are desired.

This frame has a  $1\frac{1}{2} \times 1\frac{1}{2}$  inch clear brick mould,  $\frac{1}{2} \times 5$  inch blind stop,  $\frac{1}{2} \times 4\frac{1}{2}$  inch pulley stile,  $\frac{1}{2} \times 1\frac{1}{2}$  parting stop,  $\frac{1}{2} \times 4\frac{1}{2}$  inch rabbeted box lining and  $\frac{1}{2} \times 4\frac{1}{2}$  inch back box lining. The box linings are made from common lumber as they are entirely covered up, the balance is made from good sound stock.

**No. 10-A-108.** Knocked down and carefully bundled for shipment, as described above. For windows 2 feet 6 inches wide by 5 feet 2 inches high or smaller opening. Price, with pulleys, .....\$1.94

For windows 2 feet 10 inches wide by 6 feet 6 inches high or smaller opening. Price, with pulleys, .....\$2.25



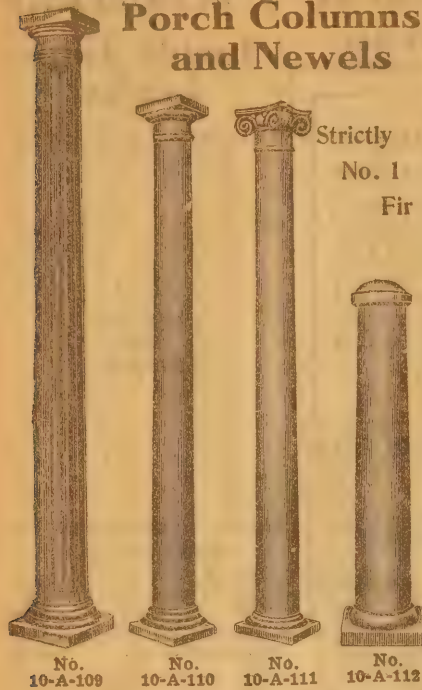
All Mill Work and Lumber in this Catalogue is BRAND NEW. We Guarantee this, and Our GUARANTEE IS ABSOLUTELY GOOD AND BINDING.

## WINDOW FRAMES FOR BRICK VENEERED BUILDING.

We can also furnish you window frames for Brick Veneered Buildings, with 2x4 studding surfaced to standard size for an additional cost of 25 cents extra over the price of a regular Drip Cap window frame.



## Colonial Built Up Porch Columns and Newels



Diameter of Shaft	Length	No. 10-A-109	No. 10-A-110	No. 10-A-111	No. 10-A-112
6 inch	4 feet				\$1.25
8 "	4 "				1.45
6 "	8 "		\$1.70	\$2.80	
6 "	9 "		1.80	2.95	
6 "	10 "		2.00	3.15	
6 "	12 "	\$3.05	2.25	3.05	
8 "	8 "	3.30	2.45	3.40	
8 "	10 "	3.50	2.70	3.55	
10 "	8 "	4.15	3.00	4.15	1.90
10 "	9 "	4.40	3.30	4.45	
10 "	10 "	4.75	3.45	4.75	
12 "	8 "	5.70	4.15	5.65	
12 "	9 "	6.15	4.55	6.10	
12 "	10 "	6.55	5.05	6.30	

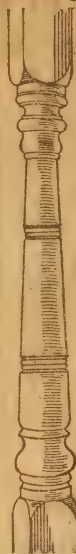
## Angle Newels

5-inch Shaft. Extra Long.



No. 10-A-127	No. 10-A-128	No. 10-A-129
Price each, Yellow Pine		
No. 10-A-127	\$1.90	\$2.05
No. 10-A-128	2.00	2.10
No. 10-A-129	1.85	2.05

## Fancy Porch Columns and Newels

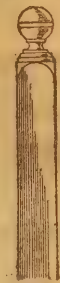


No. 10-A-113

Fir Only



No. 10-A-114



No. 10-A-115

### Fancy Porch Columns.

Size	No. 10-A-113	No. 10-A-114	No. 10-A-115
8 ft.			
4 x 4	\$0.65	\$0.70	\$0.75
5 x 5	1.00	1.15	1.25
6 x 6	1.50	1.65	1.80

### Fancy Porch Newels.

Size	No. A-114	No. A-115
4 x 4—4 feet	\$0.40	\$0.35
5 x 5—4 "	.55	.50
6 x 6—4 "	.75	.70

All Mill Work and Lumber offered  
you in this catalog is ABSOLUTELY  
BRAND NEW.

## Stair Newels

Main Stair Newels selected stock. 6-inch shaft.  
Length 4 feet. Long base.



No. 10-A-123



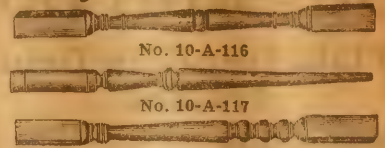
No. 10-A-124



No. 10-A-126

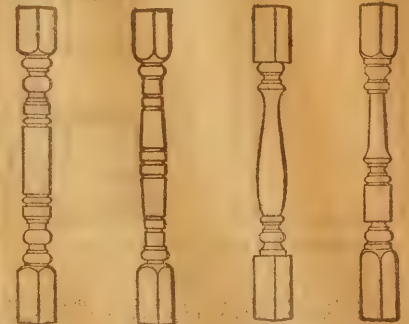
No. 10-A-123	No. 10-A-124	No. 10-A-126
Price each, Yellow Pine		
No. 10-A-123	\$3.15	\$3.40
No. 10-A-124	4.00	4.30
No. 10-A-126	3.65	3.95

## Fancy Stair Balusters



Size	No. 10-A-116	No. 10-A-117	No. 10-A-118
1 1/2 x 1 1/2 x 24	price each, either style		
1 1/2 x 1 1/2 x 28			
	Yellow Pine	Oak	
	\$0.09	\$0.10	
	.10	.12	

## Fancy Porch Balusters



Size	No. 10-A-119	No. 10-A-120	No. 10-A-121	No. 10-A-122
1 1/2 x 18				
1 1/2 x 20				
1 1/2 x 22				
1 1/2 x 24				
	Price each			
	\$0.05			
	.05			
	.05			
	.05			

## Corner Beads



Size	No. 10-A-130
1 1/2 x 4'	Price each
1 1/2 x 4'	\$0.10
1 1/2 x 4'	.13

## Base Angles



Size	No. 10-A-131
1 1/2 x 12" or 14"	Price per 100
	\$1.90

## Fancy Porch Spindles



Size	No. 10-A-132	No. 10-A-133
1 1/2 x 8"	Price each	Price each
1 1/2 x 10"	\$0.02	\$0.02
1 1/2 x 12"	.02	.02

## Fancy Porch Brackets



No. 10-A-134



No. 10-A-135

Size	No. 10-A-134 and 135
10 x 12 x 1 1/2"	Price each
12 x 14 x 1 1/2"	\$0.07
12 x 16 x 1 1/2"	.08
	.09



## PLATE RAIL.



No. 10-A-136. Projection from wall 3 1/2 inches. Height over all 2 1/2 inches. Price complete as shown. Yellow pine, per lineal ft. \$0.06

Plain sawed oak. . . . .07

## FANCY FACE BRACKET.

3-Member, 3 1/2 in. Thick.

No. 10-A-137.	
Size, Inches.	Price.
8x16	\$0.35
8x20	.40
8x24	.45
10x20	.50
10x24	.55
10x30	.65



## ADJUSTABLE GABLE ORNAMENTS.



No. 10-A-138. Adjustable to any pitch. Extends 4 feet down gable. Price, each. . . . . \$1.00



No. 10-A-139. Adjustable to any pitch. Extends 5 feet down gable. Price, each. . . . . \$1.35



No. 10-A-140. Adjustable to any pitch. Extends down gable 6 feet. Price, each. . . . . \$2.50

## FANCY CORNER HEAD AND BASE BLOCKS.



No. 10-A-141.



No. 10-A-142.



No. 10-A-143.



No. 10-A-144.

Price, each.  
No. 10-A-141 . . . \$0.04  
No. 10-A-142 . . . .02

Price, each.  
No. 10-A-143 . . . \$0.04  
No. 10-A-144 . . . .04



## PORCH RAILS.

No. 10-A-145.

Top rail, 2 1/2 x 3 1/2 inches  
Price per 100 feet . . . \$5.95

No. 10-A-146. Top rail,  
1 1/2 x 3 inches.  
Price per 100 feet. . . \$3.90



No. 10-A-147. Bottom rail,  
1 1/2 x 3 inches.  
Price per 100 feet. . . \$3.90

No. 10-A-148. Bottom rail,  
1 1/2 x 3 1/2 inches.  
Price per 100 feet. . . \$4.50



No. 10-A-149. Frieze rail,  
1 1/2 x 2 1/2 inches.  
Price per 100 feet. . . \$3.60

No. 10-A-150. Frieze rail,  
1 1/2 x 3 inches.  
Price per 100 feet. . . \$3.90



No. 10-A-151. Baluster stock,  
1 1/2 x 1 1/2 inches.  
Price per 100 feet. . . \$2.40

No. 10-A-152. Baluster stock,  
1 1/2 x 1 1/2 inch.  
Price per 100 feet. . . \$1.65



## FANCY SHOE.

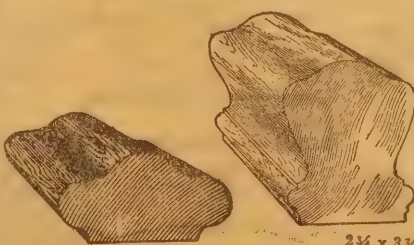
No. 10-A-153. Price per lineal foot.  
Yellow pine. . . . .4c  
Oak. . . . .5c

## HARDWOOD THRESHOLDS.



No. 10-A-154.  
Clear Maple, length 3 feet. . . . . Price, each. 7c  
Clear Oak, length 3 feet. . . . . .9c

## FANCY STAIR RAILS.



2 1/4 x 3 3/4  
No. 10-A-155. Price per lineal foot.  
No. 10-A-156. Price per lineal foot.  
Yellow Pine. . . . . \$0.07  
Oak. . . . . .12

## FANCY SHOE AND FILLET.



No. 10-A-157.



No. 10-A-158.

Price per Lineal Foot.  
Yellow Pine. . . . . \$0.04  
Oak. . . . . \$0.05  
No. 10-A-157. . . . . .01  
No. 10-A-158. . . . . .02

## CROWN MOULDINGS.



Price per 100 lineal feet.

No.	Size.	Poplar or White Pine.
8000	3x3	\$1.57
8002	3x3	1.80
8003	3x2	1.35
8005	4x4	2.25
8006	4x4	2.02
8007	1x1	.80
8008	2x2	1.12



No.	Size.	Poplar or White Pine.
8009	3x3	\$1.30
8010	3x2	1.35
8011	2x2	1.12
8012	4x4	2.02
8013	4x4	2.25
8014	3x3	1.57

## SPRUNG COVE AND BED.



Price per 100 lineal feet.

No.	Size.	Poplar or White Pine.
8015	1x1	\$0.46
8016	1x1 1/2	.80



Price per 100 lineal feet.

No.	Size.	Poplar or White Pine.
8018	2x2	\$1.12
8019	2x2	1.35
8020	3x3	1.57

## SPRUNG COVE.



Price per 100 lineal feet

No.	Size.	Poplar or White Pine.
8024	1x1	\$0.80
8025	2x2	1.12
8030	2x2	1.12
8031	1x1	.80
8032	2x2	.90



## COVES.

Price per 100 lineal feet.



No.	Size	Yellow Pine	Poplar or White Pine
8060	1 1/2 x 1 1/2	\$0.33	\$0.40
8061	1 x 1 1/2	.42	.50

## QUARTER-ROUND.

Price per 100 lineal feet.



No.	Size	Yellow Pine	Poplar or White Pine
8065	1 1/2 x 1 1/2	\$0.30	\$0.40
8066	1 x 1 1/2	.30	.40



## O. G. STOPS.

Price per 100 lineal feet

No.	Size	Yellow Pine	Poplar
8083	1 x 1 1/2	\$0.33	
8084	1 x 1 1/2	.37	
8085	1 x 1 1/2	.47	
8094	1 x 2	.72	
8095	1 x 1 1/2	.54	
8096	1 x 1 1/2	.41	
8097	1 x 1 1/2	.37	



## SOLID BED MOLDS.

No.	Size	Poplar
8035	1 x 1 1/2	\$0.40
8039	1 1/2 x 1 1/2	2.20
8045	1 x 1 1/2	.60
8048	1 1/2 x 2	2.79

## RETURN BEADS.

No.	Size	Yellow Pine
8049	1 1/2 x 1 1/2	\$1.95
8050	1 1/2 x 1 1/2	.92
8051	1 x 1 1/2	.67



## Three-Quarter Round.

No.	Size	Yellow Pine
8055	1 1/2 x 1 1/2	\$1.12
8056	1 1/2 x 1 1/2	1.94



## HALF ROUND.

No.	Size	Yellow Pine
8078	1 x 1 1/2	\$0.37
8080	1 x 1 1/2	.58
8081	1 x 1 1/2	.67



## NOSINGS.



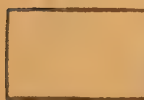
No.	Size	Yellow Pine	White Pine or Poplar
8123	1 1/2 x 1 1/2	\$0.46	\$0.66
8124	1 1/2 x 2	1.50	1.69
8125	1 1/2 x 2 1/2	1.98	2.23
8126	1 1/2 x 2 1/2	3.52	3.96
8131	1 1/2 x 1 1/2	.46	.56

## ASTRAGALS.



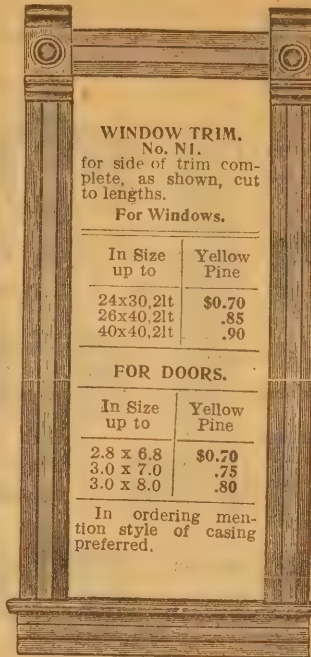
No.	Size	White Pine or Poplar
8139	1 1/2 x 1 1/2	\$0.33
8140	1 x 1 1/2	.33

## PARTING STOPS.



No.	Size	Yellow Pine	White Pine or Poplar
8432	1 x 1 1/2	\$0.30	\$0.40
8281	1 x 1 1/2	.30	.40
8282	1 x 1 1/2	.47	.54

## WINDOW TRIM.



## WINDOW TRIM.

No. N1.  
for side of trim complete, as shown, cut to lengths.

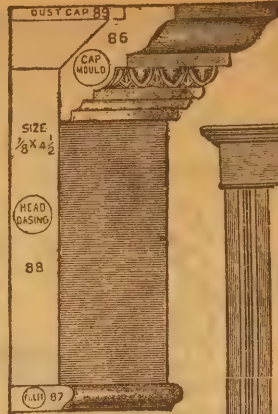
For Windows.

In Size up to	Yellow Pine
24x30, 2lt	\$0.70
26x40, 2lt	.85
40x40, 2lt	.90

FOR DOORS.

In Size up to	Yellow Pine
2.8 x 6.8	\$0.70
3.0 x 7.0	.75
3.0 x 8.0	.80

In ordering mention style of casing preferred.

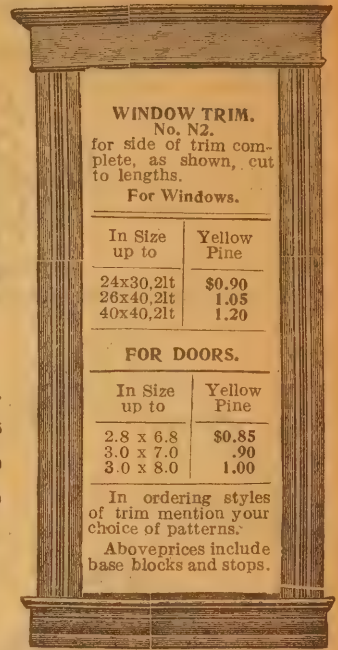


## SPECIAL CAP TRIM.

Price per 100 lineal ft.

No. 86 Cap Moulding	\$2.15
No. 87 Fillet	.40
No. 88 Head Casing	2.00
No. 89 Dust Cap	.30

## DOOR TRIM.



## WINDOW TRIM.

No. N2.  
for side of trim complete, as shown, cut to lengths.

For Windows.

In Size up to	Yellow Pine
24x30, 2lt	\$0.90
26x40, 2lt	1.05
40x40, 2lt	1.20

FOR DOORS.

In Size up to	Yellow Pine
2.8 x 6.8	\$0.85
3.0 x 7.0	.90
3.0 x 8.0	1.00

In ordering styles of trim mention your choice of patterns.

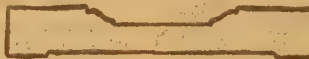
Above prices include base blocks and stops.

## PICTURE Moulding.



No.	Size	Yellow Pine
8263	1 x 1 1/2	\$0.67
8264	1 x 1 1/2	.67

## CASINGS.



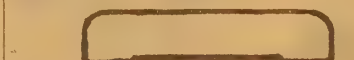
No.	Size	Yellow Pine
8288	1 x 3 1/2	\$1.55
8289	1 x 4 1/2	1.75
8290	1 x 4 1/2	2.00
8291	1 x 5 1/2	2.10



No.	Size	Yellow Pine
8300	1 x 3 1/2	\$1.55
8301	1 x 4 1/2	1.75
8302	1 x 4 1/2	2.00
8303	1 x 5 1/2	2.10



No.	Size	Yellow Pine
8304	1 x 3 1/2	\$1.55
8305	1 x 4 1/2	1.75
8306	1 x 4 1/2	2.00
8307	1 x 5 1/2	2.10



No.	Size	Yellow Pine
8308	1 x 3 1/2	\$1.55
8309	1 x 4 1/2	1.75
8310	1 x 4 1/2	2.00
8311	1 x 5 1/2	2.10



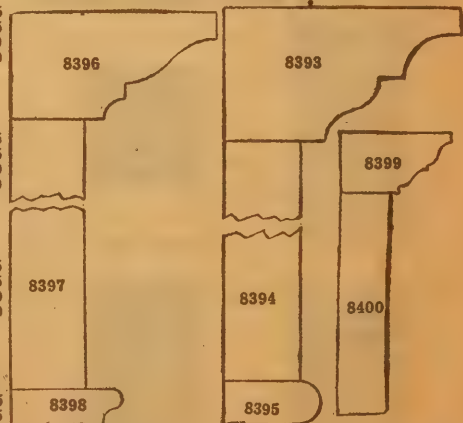
No.	Size	Yellow Pine
8340	1 x 3 1/2	\$1.55
8341	1 x 4 1/2	1.75
8342	1 x 4 1/2	2.00
8343	1 x 5 1/2	2.10

## DRIP CAP.

8284	1 1/2 x 2
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No.	Size	White Pine or Poplar
8283	1 1/2 x 1 1/2	\$1.33
8284	1 1/2 x 2	1.69
8285	1 1/2 x 2 1/2	2.05
8286	1 1/2 x 3	2.43

## CAP TRIM.



No.	Size	Yellow Pine
8393	1 1/2 x 2 1/2	\$2.15
8394	1 1/2 x 2 1/2	2.00
8395	1 1/2 x 1	.30
8396	1 1/2 x 2 1/2	1.66
8397	1 1/2 x 5	2.20
8398	1 1/2 x 1 1/2	.42
8399	1 1/2 x 2 1/2	2.15
8400	1 1/2 x 5	3.46



## BASE BOARDS.

Material in this column all Yellow (or Georgia) Pine.



No.	Size	Yellow Pine
8384	1 1/2 x 4 1/2	\$1.75
8386	1 1/2 x 7 1/2	2.85
8426	1 1/2 x 7 1/2	2.85

## THREE-MEMBER BASE.

No.	Size	Yellow Pine
8420	1 1/2 x 2 1/2	\$1.10
8421	1 1/2 x 7 1/2	2.85
8422	1 1/2 x 8	.30

## WINDOW STOOL.



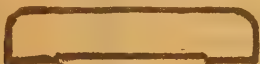
No.	Size	Yellow Pine
8267	1 1/2 x 3 1/2	\$2.50

## WINDOW APRON.



No.	Size	Yellow Pine
8379	1 1/2 x 3 1/2	Price per 100 lineal feet... \$1.58

## CHAIR RAIL.



No.	Size	Yellow Pine
8309	1 1/2 x 4 1/2	Price per 100 lineal feet... \$1.75

## SLIDING AND FOLDING DOOR ASTRAGALS.



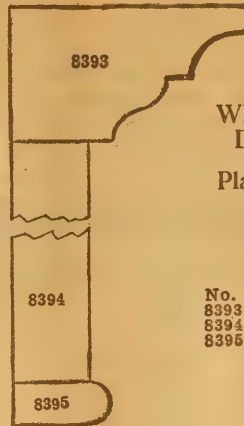
No. 8446.

No. 8449.

No. 8446—Sliding Door Astragal, Yellow Pine, for 1 1/2 Doors, 8 feet length. Price per pair... \$0.50  
No. 8449—Folding Door Astragal, Yellow Pine, for 1 1/2 Door, 8 feet length. Price per pair... \$0.25

## FINISH YOUR HOME IN BEAUTIFUL OAK.

Material in these columns all Plain Sawed Red Oak.



## WINDOW AND DOOR TRIM.

Plain Red Oak

No.	Size	Price per 100 lineal feet Red Oak
8393	1 1/2 x 2 1/2	\$4.09
8394	1 1/2 x 4 1/2	3.75
8395	1 1/2 x 1	0.75

## PICTURE MOULDING.

Plain Red Oak

No.	Size	Price per 100 lineal feet Red Oak
8264	1 1/2 x 1 1/2	\$1.50

## WINDOW AND DOOR STOPS.



Window and Door Stop.

No.	Size	Price per 100 feet
8096	1 1/2 x 1 1/2	\$0.90
8095	1 1/2 x 1 1/2	1.20

## WINDOW STOOL.



Plain Red Oak.

No.	Size	Price
8267	1 1/2 x 3 1/2	\$4.95

## CASINGS.

Plain Red Oak

No.	Size	Price
8309	1 1/2 x 4 1/2	Per 100 feet... \$3.56

## OAK BASE BLOCKS.

Plain Red Oak

No. 10-A-159.

No.	Size	Price each
1 1/2 x 4 1/2 x 11		\$0.07

## BASE.

The illustration at the left shows a modern design made up of three members. It is 9 1/2 inches high over all when set up. We furnish each part separately. We carry this in stock in the various woods.



No.	Size	Price per 100 feet Red Oak
8420	1 1/2 x 2 1/2	\$2.07
8421	1 1/2 x 7 1/2	6.11
8422	1 1/2 x 8	0.75

## COVE MOULDING.

Plain Red Oak

No. 8060.

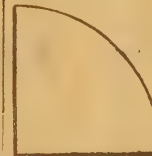


Cove Moulding is carried in stock in Plain Red Oak. Price is per 100 lineal feet. Plain Red Oak, 1 1/2 x 1 1/2... \$0.75

## QUARTER ROUND.

Plain Red Oak

No. 8065.



Size	Price
1 x 1	Per 100 lineal feet... \$0.75

## WINDOW APRON.

Plain Red Oak



No.	Size	Price
8379	1 1/2 x 3 1/2	\$3.20

## OAK CORNER BEADS.



Plain Red Oak

No. 10-A-160.

Corner Beads, round turned, 1 1/2 x 4... \$0.18

## OAK BASE CORNERS.

Plain Red Oak

No. 10-A-161.

1 1/2 x 12 or 14, price per 100... \$3.50



## PLAIN RED OAK DOOR JAMBS.

No. 10-A-149—Inside Jambs for 2x4 Studding, opening 3x7 or smaller, Red Oak... \$0.66



**COLONNADES AND GRILLEWORK****Low Prices—High Quality.**

There is nothing that will enhance the beauty of an interior as much as a Colonnade or Grillework. It adds beauty to the entire interior finish and gives an air of refinement and culture that cannot be gained by any other interior decoration. Our Colonnades and Grillework are of the very best manufacture and finish and the prices are so low that it is needless to be without them.

Your choice of Oak, Birch or Georgia Pine at same price. Be sure and state kind wanted. When no kind of Wood is stated, Oak will be shipped.

In all instances prices are for plain sawed Red Oak, unselected Birch, Georgia Pine or other woods of equal value in the white. This means that they are not oiled or varnished in any way but left in the natural wood so that they can be finished as the owner desires. If you desire us to finish them in oil and varnish for you, we can have this done at an increase of 15% over the prices named. We can furnish any design in white enamel at an increase of 30% over prices named. We show the most popular designs and sizes. Prices on larger sizes will be furnished on application.

**Interior Built Up Columns.**

Oak, Birch, Georgia Pine,  
In the White.

**No. 10-A-1250.****With Wood Cap and Base.**

	Price.
6 in. dia. x 6 ft. long...	\$4.48
6 " " x 7 " " "	5.37
6 " " x 8 " " "	6.38
7 " " x 6 " " "	5.04
7 " " x 7 " " "	6.05
7 " " x 8 " " "	6.72

**No. 10-A-1251.****With Composition Cap.**

	Price.
6 in. dia. x 6 ft. long...	\$5.05
6 " " x 7 " " "	6.05
6 " " x 8 " " "	7.05
7 " " x 6 " " "	5.71
7 " " x 7 " " "	6.72
7 " " x 8 " " "	7.72

**WE GUARANTEE  
EVERY COLUMN.**

**Colonnade.****No. 10-A-1200.****SIZE OF OPENING.**

Width.	Height.	Price.
6 ft.	8 ft.	\$17.45
8 "	8 "	18.20
9 "	9 "	19.30

No jambs or casings included in these prices.

The prices for 5½ inch jamb; wider jambs extra price.

Diameter of Column 6 inches.

**HOW TO ORDER.**

When sending your order, be sure to state the exact height and width of opening you wish to fill. Also be sure to state whether you want the jambs and casings. Jambs for 2x4 studding, extra 75c.

For price and style of casing see page 45. Give the number of running feet of casing you want, the lengths and the style.

**Colonnade.****No. 10-A-1201.****SIZE OF OPENING.**

Width.	Height.	Price.
7 ft.	8 ft.	\$20.35
8 "	9 "	20.70
9 "	9 "	21.80

No jambs or casings included in these Prices.

The above prices for 5½ inch jamb; wider jambs, extra price.

Diameter of column 6 inches.

**Colonnade.****No. 10-A-1202.****SIZE OF OPENING.**

Width.	Height.	Price.
7 ft.	8 ft.	\$21.80
8 "	8 "	22.00
9 "	8 "	22.55
9 "	9 "	23.25

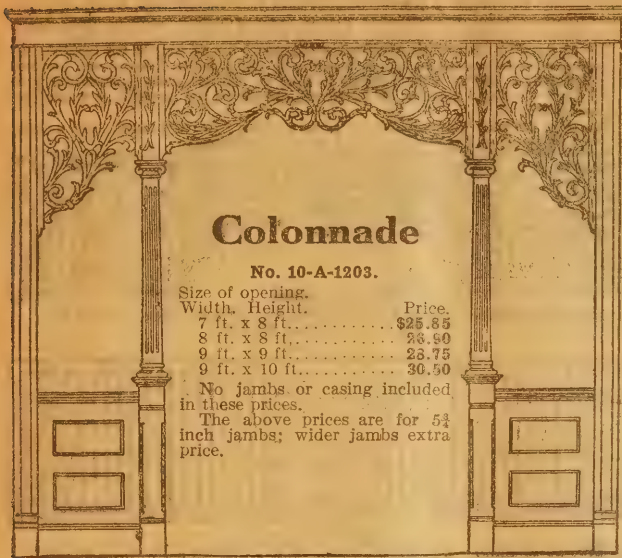
No jambs or casings included in these prices.

The above prices for 5½ inch jamb; wider jambs extra price.

Diameter of column 6 inches.



# COLONNADES AND GRILLE WORK

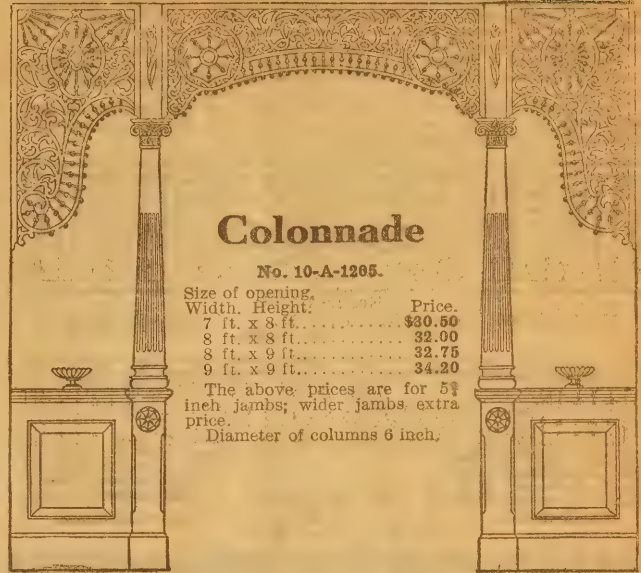


## Colonnade

No. 10-A-1203.

Size of opening.		Price.
Width.	Height.	
7 ft. x 8 ft.		\$25.85
8 ft. x 8 ft.		28.90
9 ft. x 9 ft.		28.75
9 ft. x 10 ft.		30.50

No jambs or casing included in these prices.  
The above prices are for 5½ inch jambs; wider jambs extra price.



## Colonnade

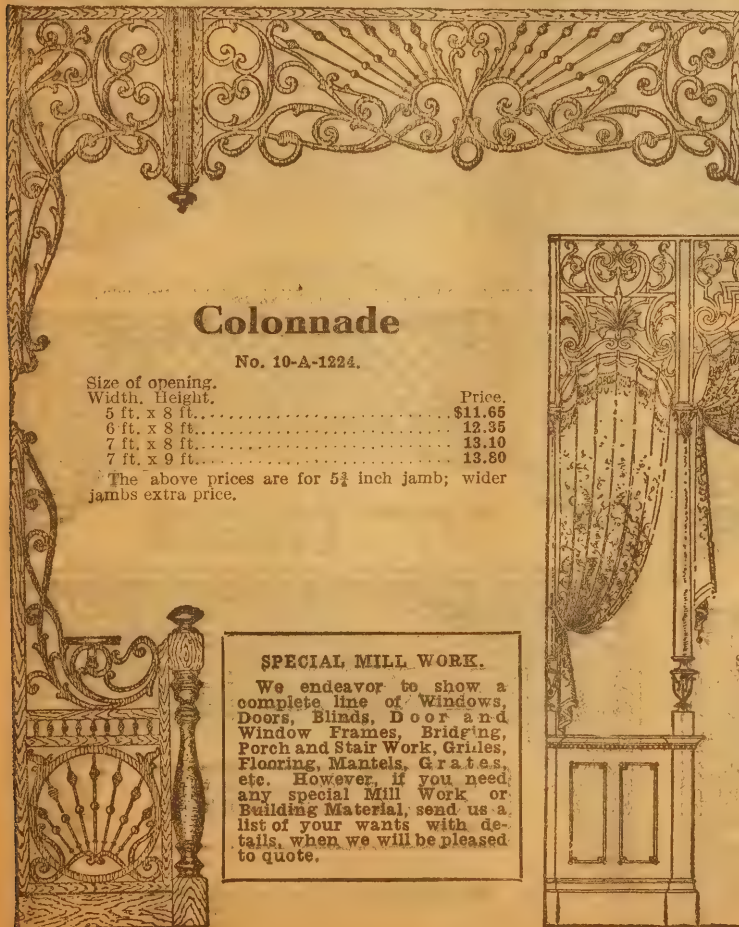
No. 10-A-1205.

Size of opening.		Price.
Width.	Height.	
7 ft. x 8 ft.		\$30.50
8 ft. x 8 ft.		32.00
8 ft. x 9 ft.		32.75
9 ft. x 9 ft.		34.20

The above prices are for 5½ inch jambs; wider jambs extra price.  
Diameter of columns 6 inch.

### OUR WONDERFUL SUCCESS.

The Chicago House Wrecking Company is the envy of the Commercial World, not only because of our ability to buy and sell goods wisely but also on account of the fact that every year shows almost a two-fold increase in our volume of trade, which comes from the satisfactory manner in which we handle every transaction that our customers have with us, as we seek their confidence by endeavoring to show the spirit of honor and fairness and with most courteous treatment.



## Colonnade

No. 10-A-1224.

Size of opening.		Price.
Width.	Height.	
5 ft. x 8 ft.		\$11.65
6 ft. x 8 ft.		12.35
7 ft. x 8 ft.		13.10
7 ft. x 9 ft.		13.80

The above prices are for 5½ inch jamb; wider jambs extra price.

### SPECIAL MILL WORK.

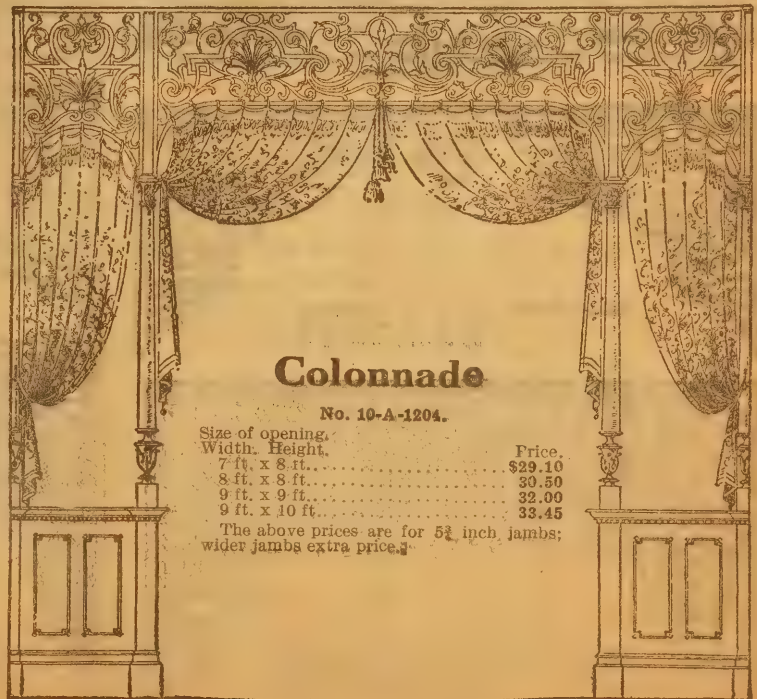
We endeavor to show a complete line of Windows, Doors, Blinds, Door and Window Frames, Bridging, Porch and Stair Work, Grilles, Flooring, Mantels, Grates, etc. However, if you need any special Mill Work or Building Material, send us a list of your wants with details, when we will be pleased to quote.

### HOW TO ORDER COLONNADES.

WHEN SENDING YOUR ORDER, be sure to state the exact height and width of opening you wish to fill. Also be sure to state whether you want the jambs and casings.

JAMBS—for 2x4 studding, extra—75c.

FOR PRICE AND STYLE OF CASING, see page 45. Give the number of running feet of casing you want, the lengths and the style.



## Colonnade

No. 10-A-1204.

Size of opening.		Price.
Width.	Height.	
7 ft. x 8 ft.		\$29.10
8 ft. x 8 ft.		30.50
9 ft. x 9 ft.		32.00
9 ft. x 10 ft.		33.45

The above prices are for 5½ inch jambs; wider jambs extra price.



## Artistic Grilles That Beautify Your Home

Latest Patterns. Best of Quality. Our Prices Just One-half what Retailers Ask.

We take pride in offering you the most popular and latest designs in the very best quality of Grilles made from selected material in a most thorough workmanship manner and the extremely low prices we quote below every illustration, means a saving to you of at least 50 per cent.

We offer you a choice of plain sawed Red Oak, Birch, Ash or woods of equal value and wish you would be sure to state which wood you desire when ordering, and if no choice is given, we always ship oak.

Grilles are unfinished, that is in the white. If finished in oil and varnished, add 25 per cent to prices quoted, or if finished in enameled white, add 40 per cent to prices quoted.

In order to insure a perfect match to your woodwork, when ordering Grilles finished in oil or varnished, please state whether light or dark finish is wanted and if possible enclose a sample showing the grain and color.

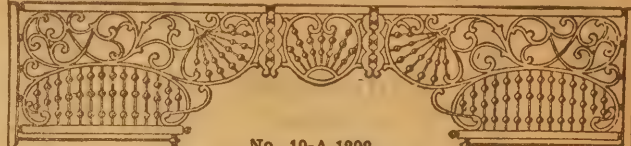
We endeavor to make prompt shipment on all orders for Grilles, but as these are made up special to order, it will take from five to ten days to make shipments and be very careful to give us the correct measurements, as Grilles made to order cannot be returned, provided we furnish the size and kind specified.

Easy to erect. Carpenters, in fact, anyone who is handy with a hammer, can fasten into place our Grilles in a few minutes.



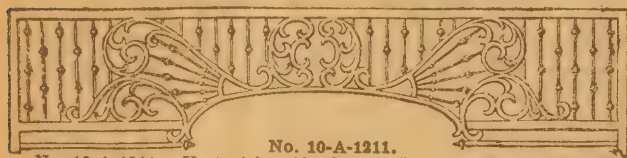
No. 10-A-1206.

No. 10-A-1206. Up to 4 ft. wide, \$2.92. Up to 5 ft. wide, \$3.25.  
Up to 6 ft. wide, \$3.64.



No. 10-A-1209

No. 10-A-1209. Up to 4 ft. wide, \$3.64. Up to 5 ft. wide, \$4.36  
Up to 6 ft. wide, \$5.10.



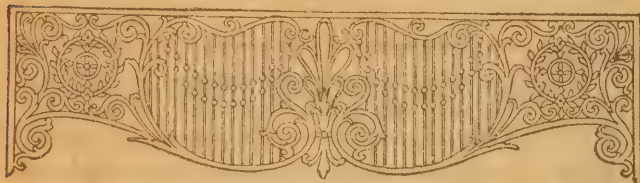
No. 10-A-1211.

No. 10-A-1211. Up to 4 ft. wide, \$2.92. Up to 5 ft. wide, \$3.25.  
Up to 6 ft. wide, \$3.64.



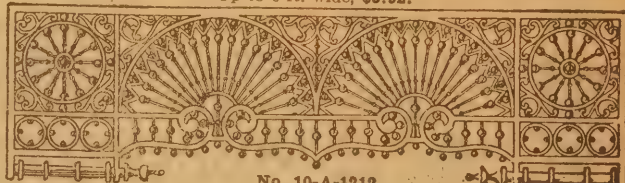
No. 10-A-1229

No. 10-A-1229. Up to 4 ft. wide, \$2.92. Up to 5 ft. wide, \$3.41.  
Up to 6 ft. wide, \$3.92.



No. 10-A-1210.

No. 10-A-1210. Up to 4 ft. wide, \$4.03. Up to 5 ft. wide, \$4.76.  
Up to 6 ft. wide, \$5.48.



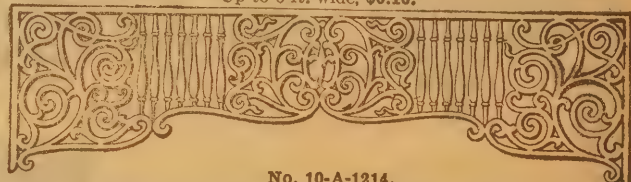
No. 10-A-1212.

No. 10-A-1212. Up to 4 ft. wide, \$4.76. Up to 5 ft. wide, \$5.48.  
Up to 6 ft. wide, \$6.16.



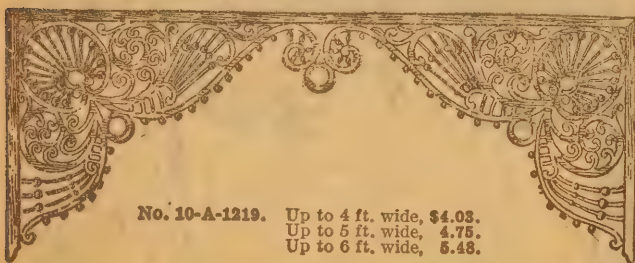
No. 10-A-1208.

No. 10-A-1208. Up to 4 ft. wide, \$4.36. Up to 5 ft. wide, \$5.10.  
Up to 6 ft. wide, \$5.82.



No. 10-A-1214.

No. 10-A-1214. Up to 4 ft. wide, \$4.03. Up to 5 ft. wide, \$4.36.  
Up to 6 ft. wide, \$4.76.



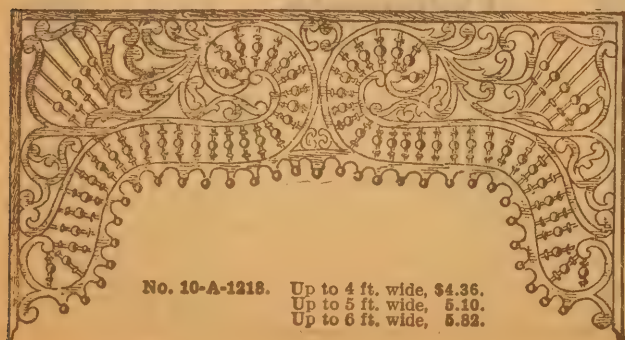
No. 10-A-1219.

Up to 4 ft. wide, \$4.03.  
Up to 5 ft. wide, 4.75.  
Up to 6 ft. wide, 5.48.



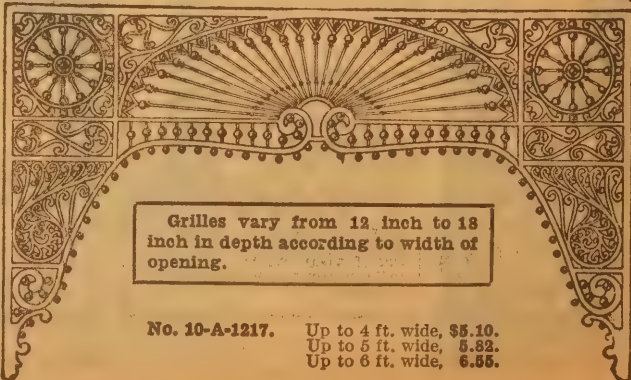
No. 10-A-1226.

Up to 4 ft. wide, \$4.03.  
Up to 5 ft. wide, 4.75.  
Up to 6 ft. wide, 5.48.



No. 10-A-1218.

Up to 4 ft. wide, \$4.36.  
Up to 5 ft. wide, 5.10.  
Up to 6 ft. wide, 5.82.



Grilles vary from 12 inch to 18 inch in depth according to width of opening.

No. 10-A-1217.

Up to 4 ft. wide, \$5.10.  
Up to 5 ft. wide, 5.82.  
Up to 6 ft. wide, 6.55.



# "MAGIC" WALL BOARD

## It Takes the Place of Lath and Plaster



Illustration showing application of "Magic" Wall Board to studding as a substitute for lath and plaster. Finished surface exposed, ready for decoration.

### How It Is Applied

"Magic" Wall Board is made in four foot squares to meet the demand of standard sized studding, set to 16-inch centers. (Equally adapted to 12 or 24 inch centers.) One sheet of "Magic" Wall Board, therefore, takes in four joists of 16-inch centers, covering the 2 inner joists completely and  $\frac{1}{2}$  of each of the 2 outer joists, leaving sufficient space on the outside of the outer joists for nailing the adjoining sheet.

"Magic" Wall Board is easy to handle. It is nailed with the lath side directly to the studding, leaving a smooth paper to be the face; or if a brick, stone or cement block wall is to be covered, directly to the furring strips, requiring no special or intricate tools and anyone who can drive a nail can apply it. Use an ordinary finishing wire nail, 4-penny or a 4-penny lath nail, driving nails every other lath at every other studding. It can be cut into any shape, to fit any corner. It can be bent to fit any curve. It can not possibly drop off or crack. It is well to leave a space of  $\frac{1}{4}$ -inch between the joints to allow for settling of the building if the building is new. Over these joints there should be pasted a strip of manila paper or cheese cloth about one inch wide, using ordinary wall paper paste for this purpose, and the kalsomine, paint or wall paper applied over the surface for the final decoration. There is no product in the world to-day upon which wall paper will stick better than on "Magic" Wall Board.

### In Applying Begin at the Top

In applying Wall Board, begin at the top, as it is easier to fix at the bottom on the floor than at the top on a scaffold.

Drive a nail in every other lath, alternating every lath and every studding, as stated above.

This method is amply sufficient to hold tight and it means a saving of one-half labor as well as nails.



Magic Wall Board.

Illustration shows the construction of Magic Wall Board—lath imbedded in asphalt mastic which is surfaced with sized card board ready for paper or paint decoration.

"Magic" Wall Board takes the place of lath and plaster. It is manufactured for us exclusively under licensed patent. It is a combination of lath, asphaltic mastic and heavily sized cardboard paper all in one. It is manufactured in sheets 4 feet square; it is ready to nail up. Anyone who can drive a nail can do the work.

To find a practical and economical material to take the place of lath and plaster has been a problem that has taken up no little time of those directly interested in producing building material. While there are various substitutes for lath and plaster on the market, in most instances the price is either out of reach, which puts it far beyond the cost of lath and plaster, or the material is unsatisfactory. Not so, however, with our new combination of lath and sheathing paper, appropriately named by us "MAGIC" WALL BOARD.

Do not confuse this with any other form or style of wall board heretofore placed on the market. There is no equal and a careful study of this subject with the material in hand will convince the most skeptical of its exceptional merits and its value as a building material.

About one hundred years ago lath and mortar became one of the accepted essentials of building construction. Like all new things it was looked upon with more or less doubt but who is there today that doubts it. "Magic" Wall Board is a 20th Century invention and does away with all the dust, dirt and dampness always present where plaster and lath are used.



Photographic view showing application of "Magic" Wall Board over an old sheathing ceiling and common brick wall. Studding set flat against brick wall to which Wall Board is nailed.

### Advantages of Asphalt Mastic

As Used in the Manufacture of our Magic Wall Board

Asphalt Mastic is proof against (1) Moisture—(2) Heat—(3) Cold—(4) Wind or air—(5) Sound—(6) Vermin—(7) Acid.

Asphalt Mastic is unaffected by climatic conditions or changes in the weather. Its advantage, therefore, over lime plaster for wall and ceiling purposes at once becomes apparent.

### Dry Walls and Ceilings

In certain climates, plaster walls absorb so much moisture, that they add to the rheumatic and neuralgic ills of those who dwell within them. And during the protracted rainy seasons, plaster walls almost everywhere grow damp, jeopardizing health and life itself.

"Magic" Wall Board makes a sanitary, firm, substantial wall, which insures apartments anywhere at any time as dry as a chip.

"Magic" Wall Board is delivered to users dry, is applied dry, and stays dry for all time.

### Won't Crack, Shrink or Warp

Because "Magic" Wall Board does not absorb moisture, it stands to reason it will not swell. And because it won't swell it won't shrink. That's why, the unsightly ragged, ever-lengthening and widening cracks common in plaster walls and ceilings, are not to be found in houses finished with "Magic" Wall Board.



# What It Is

"Magic" Wall Board Comes in Sheets  
Four Feet Wide and Four Feet  
Long, Properly Crated.

The flat surface on which the paper, paint or whitewash is to be applied is strong, durable, fibrous paper. Upon the back of this has been placed a thick, substantial layer of hot asphalt mastic and then another layer of paper, and on top of this more mastic, and into this mastic while hot, regular smoothly planed building lath, about one-half of an inch apart, have been embedded into the hot solution at the enormous pressure of 500 lbs. to the square inch, thus assuring a positive adhesion, and when finished making the parts rigid and strengthening all component parts. Think of a floor withstanding a weight of 500 lbs. to the square inch, equaling the weight of 36 tons to the square foot. There is no doubt about "Magic" Wall Board's durability—no doubt about "Magic" Wall Board's weather defying qualities—no doubt about "Magic" Wall Board's economy.



Photographic view of same room finished—papered walls and  
Mission Panel effect ceiling.



## Its Use

"Magic" Wall Board is used by practical up-to-date home builders, contractors and real estate dealers for many purposes. Its original intention was to take the place of lath and plaster only, but the good quality of this board soon developed its economical and practical application for many other purposes. It has been used for exterior of buildings instead of sheathing, and it has also been used for exterior buildings upon which a cement coating is placed, taking the place of wire lath and sheathing combined. Following are a few of the many purposes for which it is used:

(1) **SUBSTITUTE FOR LATH AND PLASTER:** "Magic" Wall Board takes the place of lath and plaster when nailed directly to the inside studding with the finished surface exposed on inside of building. Sheathing boards in many cases will not be necessary, unless climate is severe, when "Magic" Wall Board is used on inside instead of lath and plaster.

(2) **SUBSTITUTE FOR SHEATHING.** "Magic" Wall Board is used as a substitute for sheathing. That is, it is nailed to the studding on the outside of building with lath and asphalt side exposed, then the weather boarding nailed over same. This offers double protection, gives insulation and dead air space between "Magic" Wall Board and the siding and makes a thoroughly warm house. When "Magic" Wall Board is used as a sheathing on the outside of a building and if "Magic" Wall Board is used as a substitute for lath and plaster, on the inside of building, it offers triple protection, giving an ideal building regardless of climatic conditions. It keeps out cold and wind in the winter and heat and moisture in the summer.

(3) **FOR CEMENT COATING.** "Magic" Wall Board nailed on the outside studding with the lath side exposed is suitable for cement coating. It has been tested and found that cement will adhere to the asphalt mastic with the combination of lath and asphalt, backed by a heavy cardboard paper, and then when the cement coating is applied, a better wall will be had than can be secured from any other combination. It will be moisture proof and will mean a saving of fifty per cent in cement, as the cement does not have to drop down behind to make a "key," as is the case with ordinary lath either of wood or wire.

(4) **POULTRY HOUSE OR BARN LINING.** Mice and vermin will not nest in "Magic" Wall Board, as it contains no hair, and asphaltic mastic is very objectionable to them, and they will not attack it as they do ordinary lath and plaster. It will make the warmest poultry house or barn in the world.

## 50 per cent Saving, no Waste of Material or Time

Every foot of Wall Board can be utilized. You do not have to pay for window and door spaces in its application. "Magic" Wall Board is readily cut with a hand-saw and knife to fit all spaces without any waste at all. Therefore, 1000 square feet of Wall Board will cover 1000 square feet of space. Coal oil will remove asphalt mastic from saw or knife.

Here's a remarkable item on saving. You can apply Magic Wall Board in half the time required in the use of any other material. That means an additional saving of 50 per cent in labor. One man is all that is required in applying "Magic" Wall Board to the studding. An ordinary lather can finish a wall with "Magic" Wall Board in less time than he can put on lath for plastering.

## Decoration

"Magic" Wall Board will take every known kind of decoration, and almost any desired effect is produced, from the heavy timbered panel to the delicate tinted effects. For Mission Panel Ceilings, "Magic" Wall Board is ideal in beautiful effects produced as well as in service and economy.

In painting with oil or water colors, you can nail moulding, beading or timber over the joints. In ordinary jobs, such as attics, cellars, laundries and the cheaper class of dwellings, apply paint without the mouldings.

In decorating with paper: "Magic" Wall Board is sized before leaving the factory, insuring permanent adhesiveness. You may use cheese cloth or paper at seams, or omit—all depends upon the standard of perfection desired.

Burlap, canvas, etc., are applied to "Magic" Wall Board with greater economy and satisfaction than any other wall covering.



**Order NOW, Price will Advance to \$2.75 per Square, July 1st, 1910**

Price, per Square of 100 Square Feet, = = = = \$2.50

Price, per Crate of 256 Square Feet, = = = = 6.40

We strongly advise purchasing in full crate lots as it will then be in the original packages as coming from factory.



# FIRE-PLACE FIXTURES

Grates and Irons, Portable Baskets, Screens,  
Gas Grates, Gas Logs, Etc.

We invite a careful comparison of our line of Grates and Fire Place Fixtures. The price is absolutely the **LOWEST OF ALL**—the material the best manufactured. Please note the modern and up-to-date designs, nothing of the out-of-date about it, all fresh, clean and bang-up stock.

Read our descriptions and specifications carefully. Our Grates contain the latest ventilating and regulating devices, the finish and workmanship is the best.

**FINISH**—All Grates and Gas Grates can be had in either **OXIDIZE COPPER, OXIDIZE BRASS** or **BRUSH BRASS**, at the same price.

**Tile**. Our stock consists of the very best quality enamel Tiling, in the latest and most artistic colors, such as Ivory, Cream, Green, Brown, Delft Blue, etc., also mottled Onyx in various shades. Also be sure and read about our marbled slate tile illustrated on next page.

**Fire Brick and Cement**. We do not include Fire Brick and Cement. Can generally be purchased to better advantage, locally, on account of heavy freight charges.

We absolutely guarantee that all above goods are manufactured in the very best style, workmanship, quality and finish, and guarantee safe delivery.

## "AJAX" GRATE.



Our "Ajax Double Damper" Set Grate invariably gives perfect satisfaction. It is a beautiful ornament and the material is the very best. This Grate has a heavy fire clay lining on back, is of one piece, ready to put in place and does not require the services of a skilled workman to set.

To those desiring an inexpensive serviceable and attractive grate or fire place, fitted and mounted ready for use, we highly recommend our Ajax as here described and illustrated.

The arrangement of the double dampers give perfect control to the draft and fire. "Ajax" grates require little labor or expense to set. Just push it into the fire place and it is ready to start the fire.

## AJAX GRATE OUTFIT

No. 10-A-1405. Ajax Grate, with an oxidized copper triple plate frame, 24½ in. wide x 30½ in. high, and with a basket 20 in. wide x 9 in. deep, with double damper attachment and fire clay brick lining back of fire pot, and including Plated Summer Front. Price complete ....\$7.65  
Extra: Tile for Facing and Hearth. (Size of hearth 60 x 18 in.) Add....\$7.70  
Shipping weight, 150 lbs.

## SECTIONAL VIEW OF OUTFIT

### No. 2.

Illustration shows the side view of the damper attachment and the fire-clay brick lining back of fire pot.

Please note the arrangement of the two dampers and the heavy fire-clay back lining. These are important features.



# \$2.48

## Buys Our Combination "Mephisto" Grate

Burns Wood or Coal.  
Summer Front only 75c Extra.

## "MEPHISTO" GRATE.



Our "Mephisto" Combination Grate is excellent for burning wood and soft coal. The basket or fire pot is made of heavy cast iron and very serviceable. The Frame has a projecting canopy at top.

The Summer Front is of ornamental steel, cannot break, and as it is light in weight, it is easily put in place, being very much superior to the old fashion cast iron kind.

## MEPHISTO GRATE OUTFIT

No. 10-A-1354: Mephisto Grate, 24½ in. wide x 30½ in. high, with a fire pot 20 in. wide x 9 in. deep, Berlin black finish. Price.....\$2.48

Shipping weight, 70 lbs.

EXTRA: Tile for Facing and Hearth. (Size of hearth 60 x 18 in.) Add....\$7.45  
EXTRA: Summer Front add....\$0.75

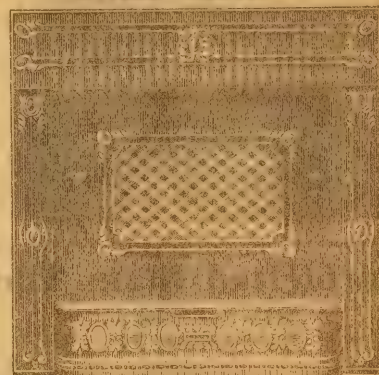
## LARGER SIZE MEPHISTO GRATE

EXTRA COST. We can furnish the Mephisto Grate with a frame 30½ in. x 30½ in., with a fire pot 24 in. wide and 9 in. deep. Add to above price.....50c  
Shipping weight, 80 lbs.

DO NOT CONFUSE our offering with the cheap, showy, "Ginger-Bread" Stock now flooding the market. The tendency of the times is for plainness and neatness, which means less care-taking and greater lasting quality and much better taste.

We have samples of our mantels and grates set up so you can see just how they will look in your home.

## "METEOR" GRATE.



In presenting our "Meteor" Double Damper set grate we show a grate that has damper slide in ash screen. Both can be closed completely to throw the fire and prevent dust when shaking or using.

The rods connecting the dampers give the user complete control of the fire; also offering perfect ventilation at all times. Very simple in its construction, all in one piece and ready for putting in place and does not require the services of a skilled workman to set.

Our "Meteor" is a serviceable, practical, complete and economical fire place, unequaled and highly recommended to all desiring the best that money can buy, which is the cheapest, in the long run. Absolutely guaranteed, and with all latest improvements and for beauty and economy it has no equal.

## METEOR GRATE OUTFIT

No. 10-A-1420: Meteor Grate, triple plated with frame 24½ in. wide x 30½ in. high, with a 20 in. plated basket, with double damper attachment and fire clay brick lining and including Plated Summer Front in heavy cast iron. Price...\$9.35  
Shipping weight, 150 lbs.

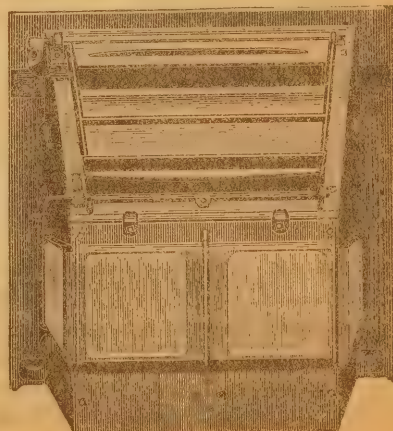
Larger Size Meteor Grate Extra Cost. We can furnish the Meteor Grate with frame 30½ x 30½ with 24 in. wide fire pot 9 in. deep, add to above price \$1.00. Shipping weight 200 lbs.

EXTRA: Tile for Facing and Hearth. (Size hearth 60 x 18 in.) Add.....\$7.70

## SECTIONAL VIEW

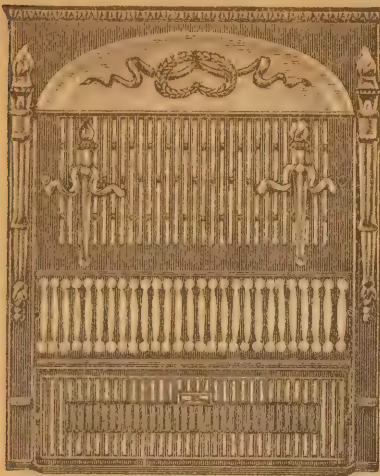
Illustration shows arrangement of damper, fire tile and general construction of our outfit Meteor Grate.

Attention is called to the rear view showing the arrangement of the two dampers and the heavy fire clay back linings. Shaking and dumping attachment is furnished with each grate without extra cost.





## VESUVIUS MOUNTED GAS GRATE.



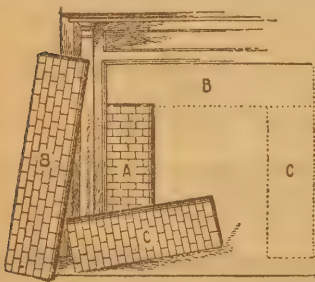
## Marbleized Slate Tile

Takes the Place of  
Regular Glazed Tile.

Here is something **Brand New**. Slate marbleized to imitate the various shades of tile. It comes in slabs, requiring three pieces for the facings for a mantel and one piece for the hearth. These slabs come to you all ready to set up, no tile setting required and consequently a great saving to you not only in the first cost of the material but in the cost of setting up.

The material is regular slate of about  $\frac{1}{4}$  inch thickness for the facings and double that thickness for the hearths. It is scored to represent tile and covered with a chemical composition on the face, having a polished finish and being marbleized to represent the various colors of different tiles. The following colors are stock mottled colors: Order by number.

- (1) Brown and white.
- (2) Green, yellow and white.
- (3) Light green and white.
- (4) Dark green and white.
- (5) Green, rose, pink and white.
- (6) Green, brown and white.



The above cut shows these slabs ready to place in the tile opening of the mantel, "B" is the top piece and "A" and "C" the side pieces.

Just think of it. A set of 3 pieces of these facings for a mantel with 3 feet x 3 feet tile opening, and hearth piece, size 5 feet x 2 feet will cost only **\$4.60** for the 4 pieces. They are ready to set up. Compare this price against the bare cost of glazed tile, to say nothing of the cost to set up regular glazed tile. By using Marbleized Slate you have no unsightly cracks.

**No. 10-B-1600.** Complete set, of 4 pieces, Marbleized Slate Facings for tile opening 3 feet x 3 feet and hearth 5 feet x 2 feet. .... **\$4.60**

**No. 10-B-1601.** Complete set, of 4 pieces, Marbleized Slate Facings for tile opening 30 $\frac{1}{2}$  inches x 30 $\frac{1}{2}$  inches and hearth 5 feet x 2 feet. .... **\$4.90**

**No. 10-B-1602.** Complete set, of 4 pieces, Marbleized Slate Facings for tile opening 24 $\frac{1}{2}$  inches x 30 $\frac{1}{2}$  inches and hearth 5 feet x 2 feet. .... **\$5.40**

## Outfit Consists of:

Complete mounted Gas Grate and summer front, copper plated; 24 $\frac{1}{2}$  inches wide by 30 $\frac{1}{2}$  inches high. It is fitted with our latest improved 5-row steel burners, spreading one continuous sheet of fire over the asbestos back, and radiating at least one-third more heat than can be produced by any other gas grate with the same amount of gas. It has projecting canopy top, and damper for regulating the ventilation; also gas valve, air mixer and copper reflectors. Grate is all put together complete, ready for use.

**No. 10-A-1314.** Vesuvius Mounted Gas Grate Outfit, as described above. .... **\$5.20**  
Price complete.

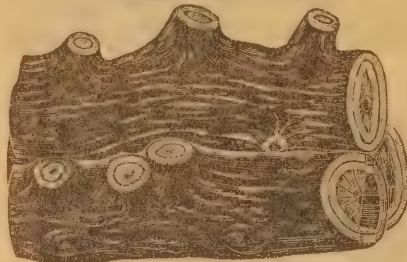
**No. 10-A-1316.** Same Outfit as above, except it is 30 $\frac{1}{2}$  in. wide by 30 $\frac{1}{2}$  in. high. .... **\$6.00**  
Price complete.

**EXTRA:** Tile for Facing and Hearth (Hearth 60x18 in.) Add .... **\$7.70**

**Note:** The Vesuvius Gas Grate is the cheapest, cleanest and quickest fire ever produced. Leaves no dust or ashes. Try one and be convinced.

Shipping weight 75 lbs.

## TRIPLE GAS LOG.



This Triple Gas Log shows a beautiful reproduction of natural wood. It is made of the best heavy terra cotta, highly burned, and with reasonable care will last a life time.

**No. 10-A-1501.** 18 inch, including adjustable spud and mixer, each. .... **\$4.95**



22 inches high.

**No. 10-A-1214.**  
Per pair. .... **\$3.60**  
Shipping weight 50 lbs.



22 inches high.

**No. 10-A-1201.**  
Per pair. .... **\$2.80**  
Shipping weight 50 lbs.



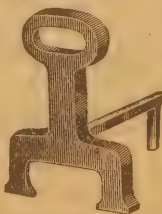
16 inches high.

**No. 10-A-1208.**  
Per pair. .... **\$3.00**  
Shipping weight 40 lbs.



15 inches high.

**No. 10-A-1209.**  
Per pair. .... **\$2.40**  
Shipping weight 30 lbs.



14 inches high.

**No. 10-A-215.**  
Per pair. .... **\$1.50**  
Shipping weight 25 lbs.



14 inches high.

**No. 10-A-216.**  
Per pair. .... **\$1.50**  
Shipping weight 25 lbs.

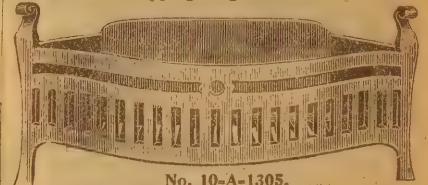
## PORTABLE BASKET GRATES.

Made with dumping bottom, triple plated of black finish, ash screen is extra and only sent when specially ordered.



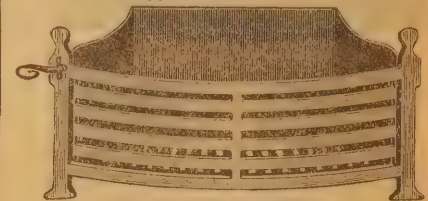
**No. 10-A-1310.**  
18, 20 and 27 inches.

**No. 10-A-1310.** 18 inches wide. Price. .... **\$2.85**  
**No. 10-A-1311.** 20 " " Price. .... **2.95**  
**No. 10-A-1312.** 27 " " Price. .... **3.60**  
Shipping weight 70 lbs.



**No. 10-A-1305.**  
18, 22 and 27 inches.

**No. 10-A-1305.** 18 inches wide. Price. .... **\$2.80**  
**No. 10-A-1306.** 22 " " Price. .... **2.90**  
**No. 10-A-1307.** 27 " " Price. .... **3.50**  
Shipping weight 70 lbs.



**No. 10-A-1302.**  
18, 20 and 27 inches.

**No. 10-A-1302.** 18 inches wide. Price. .... **\$2.95**  
**No. 10-A-1303.** 20 " " Price. .... **3.00**  
**No. 10-A-1304.** 27 " " Price. .... **3.65**  
Shipping weight 70 lbs.



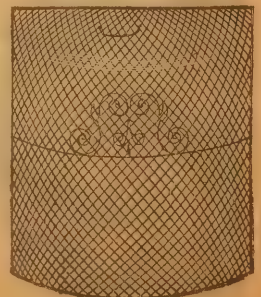
**No. 10-A-1313.**  
18, 20 and 27 inches.

**No. 10-A-1313.** 18 inches wide. Price. .... **\$3.00**  
**No. 10-A-1314.** 20 " " Price. .... **3.10**  
**No. 10-A-1315.** 27 " " Price. .... **3.75**  
Shipping weight 70 lbs.

WIRE  
SPARK GUARDS.

**No. 10-A-1502.**  
Coppered fine wire lining, 24 in. wide, 30 in. long. .... **\$1.65**

**No. 10-A-1503.**  
Coppered fine wire lining, 30 in. wide, 30 in. long. .... **\$1.75**





# Wood Mantels and Consoles

## A SPLENDID HIGH GRADE LINE AT UNHEARD OF LOW PRICES

**Compare our Prices**, but do not be governed by the price alone, as quality must be considered. We positively **Say Our Prices on this Class of Material, Quality Considered, are the Lowest.**

Our Mantels and Consoles are constructed of the best grade of lumber suitable for the purpose, **are Manufactured by the Most Skillful Workmen.**

**WOOD.** Wherever quarter-sawed Oak is specified, **The Entire Mantel is of Quarter-Sawed Oak of the Very Best Grade of Highly Figured Lumber**, no veneer except on the columns, which are necessarily veneered as they cannot be quartered any other way. This applies also to brackets; the balance is solid material. Where Birch is specified the entire mantel is of Birch. The columns and veneered parts being veneered in genuine mahogany.

**Mirrors.** Wherever the mirror is specified beveled or plain, we furnish the very **Best Quality of French Beveled Polished Plate Mirror.** Where plain mirror is shown and beveled plate is desired we will be pleased to furnish it for the small additional cost of 75 cents extra, beveled either on three or four sides.

**Finish.** The finish on all mantels and consoles is **Hand Rubbed and Hand Polished Piano Finish**, the best that can be obtained. The finishing material used being the very best.

**Carvings.** All carvings are strictly **Wood Carvings**, no cheap composition carving whatever.

**Tile.** Our stock consists of the very best quality enamel Tiling, in the latest and most artistic colors, such as Ivory, Cream, Green, Brown, Delft Blue, etc., also mottled Onyx in various shades.

Attention is also called to our Marbleized Slate Tile on page 54, which not only means a great saving in the cost of the tile itself, but especially in the cost of labor. Marbleized Slate Tile **does not require a Tile-Setter**—any handy man can install it.

**Fire Brick and Cement.** We do not include Fire Brick and Cement. Can generally be purchased to better advantage locally on account of heavy freight charges.

**WE ABSOLUTELY GUARANTEE THAT ALL THE ABOVE GOODS ARE MANUFACTURED IN THE VERY BEST STYLE, WORKMANSHIP, QUALITY and FINISH, and GUARANTEE SAFE DELIVERY**

### This Beautiful Bevel Plate Mirror Mantel \$32.90

This price is for woodwork and mirror only. Beautiful quarter sawed, polished piano finish, bevel plate mirror, 87" high and 60" wide, with wall plates to set 5". The opening for the tile is 42" high x 39" wide.

The beautiful pilasters are of highly figured quarter sawed veneer—balance of the mantel is solid quarter sawed, best grade figured lumber. A fit ornament for the finest parlor.

This mantel can also be furnished in Birch, Mahogany finish in which event the pilasters and veneered parts are veneered in genuine Mahogany.

The tendency of the time is for plainness and neatness, and we believe we have succeeded in making this idea apply to the mantel illustrated on this page. It is not severely plain in the fullest sense of the word, not entirely without such ornaments as will increase the attractiveness of the modern home. The solid appearing, swell shape pilasters are their chief ornament acting as a support, as it were, for the wide and appropriate shelves.

Remember our price includes beveled plate mirror; if plain mirror is acceptable, deduct 75 cents from the above price.

#### STOCK WOODS

#### Quartered Oak and Birch

Height, 87 inches.	Projection, 3 inches.
Width, 60 inches.	Mirror, 20x36 inches.
Tile Opening, 42x39 inches.	Oval Mirror, 75 cents extra.

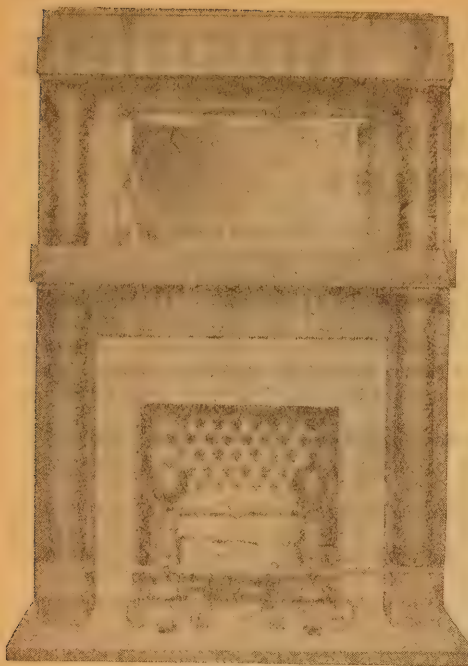
#### ALL BEST RUBBED AND POLISHED PIANO FINISH

No. 10-A-6981. Mantel with woodwork and Mirror.	\$32.90
Only.....	
No. 10-A-6982. With best quality enameled tile for the hearth and facing and No. 10-A-1354 "Mephisto" Grate Outfit, which consists of combination grate.....	\$42.25
No. 10-A-6983. With tile as above described and No. 10-A-1405 "Ajax" Grate outfit, including summer front.....	\$48.40
No. 10-A-6984. With tile as above described and No. 10-A-1314 "Vesuvius" mounted gas grate.....	\$48.50

Mantels furnished only with Grate Outfits as shown on pages 53 and 54.

No. 10-A-6981.





No. 10-A-8151.

\$29.90

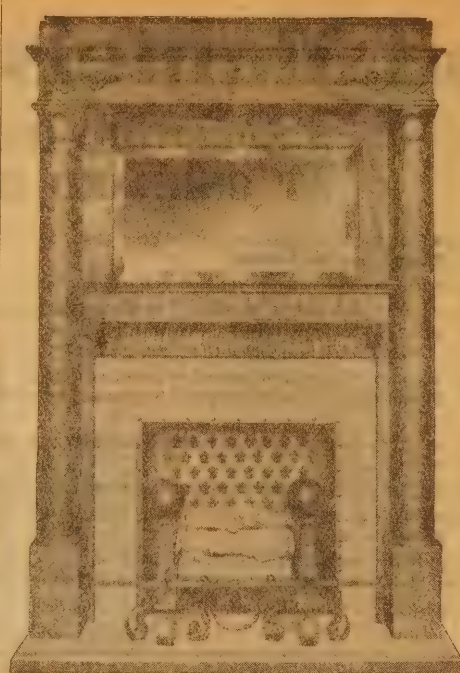
Here is a beautiful quarter sawed polished beveled plate mirror mantel, built of first-class solid quarter sawed oak, except the columns which are veneered and manufactured in superior workmanship. This is no cheap, flashy truck although the price is so low that it may cause the impression—the article itself will prove a pleasant surprise.

Stock Woods—  
Quartered Oak  
and Birch.

Height, 90 Inches.  
Width, 60 Inches.  
Tile Opening,  
42x39 Inches. Pro-  
jection, 3 Inches.  
Bevel Plate Mir-  
ror, 20x36 Inches.  
Veneered Col-  
umns, 5 Inches.  
Oval Mirror, 75  
cents extra.

All Best Rubbed  
and Polished  
Piano Finish.

- No. 10-A-8151. Mantel with Woodwork and Mirror, only ..... \$29.90  
No. 10-A-8152. With best quality enameled tile for the hearth and facing  
and No. 10-A-1354 "Mephisto" Grate Outfit, which consists of combina-  
tion grate ..... \$39.25  
No. 10-A-8153. With tile as above described and No. 10-A-1405 "Ajax"  
Grate Outfit, including summer front ..... \$45.40  
No. 10-A-8154. With tile as above described and No. 10-A-1314 "Vesu-  
vius" Mounted Gas Grate ..... \$45.50  
Mantels furnished only with Grate Outfits as shown on pages 53 and 54.



No. 10-A-8191.

\$28.85

This cut will show a very beautiful solid quarter sawed (except columns) Beveled Plate Mirror, handsomely finished mantel. None better made as far as material is concerned. Carving wood, no cheap composition material. Excellent design throughout and an ornament to any room. Will please the most particular.

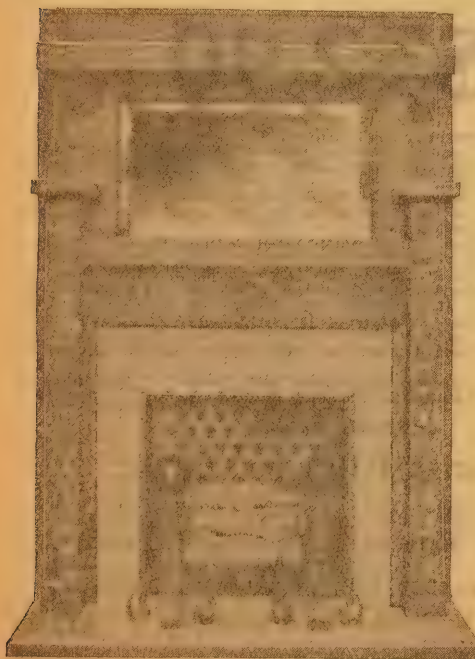
Stock Woods—  
Quartered Oak  
and Birch.

Height, 90 Inches.  
Width, 60 Inches.  
Tile Opening,  
42x39 Inches. Pro-  
jection, 3 Inches.  
Bevel Plate Mir-  
ror, 20x36 Inches.  
Veneered Col-  
umns, 5 Inches.  
Oval Mirror, 75  
cents extra.

All Best Rubbed  
and Polished  
Piano Finish.

No. 10-A-8191.  
Mantel with Wood-  
work and Mirror,  
only ..... \$28.85

- No. 10-A-8192. With best quality enameled tile for the hearth and facing  
and No. 10-A-1354 "Mephisto" Grate Outfit, which consists of combina-  
tion grate ..... \$38.20  
No. 10-A-8193. With tile as above described and No. 10-A-1405 "Ajax"  
Grate Outfit, including summer front ..... \$44.35  
No. 10-A-8194. With tile as above described and No. 10-A-1314 "Vesu-  
vius" Mounted Gas Grate ..... \$44.45  
Mantels furnished only with Grate Outfits as shown on pages 53 and 54.



No. 10-A-8241.

\$27.19

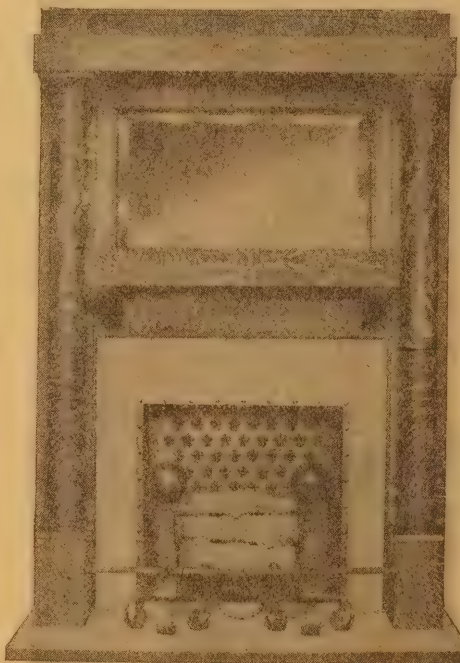
This is an extremely popular design, strictly along mission lines and in view of the unusual popularity of mission style of architecture, there is a demand for mantels of this class. It is built of quarter sawed oak, handsomely finished. Material is solid quarter sawed oak except the brackets, which are veneered for reasons previously explained. This is high grade stock at extremely low prices. Mirror heavy beveled plate.

Stock Woods—  
Quartered Oak  
and Birch.

Height, 86 Inches.  
Width, 60 In. Tile  
Opening, 42 x 39  
Inches. Projection  
3 Inches. Bevel  
Plate Mirror, 20x36  
Inches. Oval Mir-  
ror, 75 cts. Extra

All Best Rubbed  
and Polished  
Piano Finish.

- No. 10-A-8241. Mantel with Woodwork and Mirror, only ..... \$27.19  
No. 10-A-8242. With best quality enameled tile for the hearth and facing  
and No. 10-A-1354 "Mephisto" Grate Outfit, which consists of combina-  
tion grate ..... \$36.54  
No. 10-A-8243. With tile as above described and No. 10-A-1405 "Ajax"  
Grate Outfit, including summer front ..... \$42.69  
No. 10-A-8244. With tile as above described and No. 10-A-1314 "Vesu-  
vius" Mounted Gas Grate ..... \$42.79  
Mantels furnished only with Grate Outfits as shown on pages 53 and 54.



No. 10-A-8141.

\$28.95

We show here a handsome beveled plate mirror mantel that is a combination style, suitable with any kind of interior trim, mission or otherwise. Handsome, massive shelves, supported by large columns 5 inches in diameter on good-sized square base. All material quarter sawed except brackets and columns which are veneered for reasons outlined on opening page of this department. This mantel will look well and add beauty to the interior finish of any house.

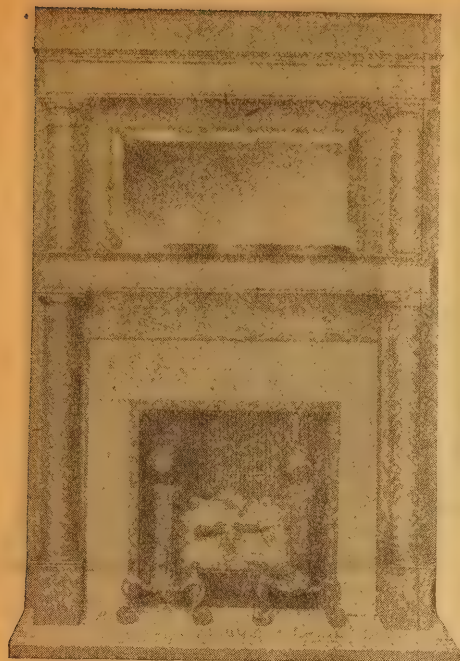
Stock Woods—  
Quartered Oak  
and Birch.

Height, 90 Inches.  
Width, 60 Inches.  
Tile Opening,  
42x39 Inches. Pro-  
jection, 3 Inches.  
Bevel Plate Mir-  
ror, 20x36 Inches.  
Veneered Col-  
umns, 5 Inches.  
Oval Mirror, 75  
cents Extra.

All Best Rubbed  
and Polished  
Piano Finish.

- No. 10-A-8141. Mantel with Woodwork and Mirror,  
only ..... \$28.95  
No. 10-A-8142. With best quality enameled tile for  
the hearth and facing and No. 10-A-1354 "Mephisto"  
Grate Outfit, which consists of combination grate ..... \$38.30  
No. 10-A-8143. With tile as above described and No. 10-A-1405 "Ajax"  
Grate Outfit, including summer front ..... \$44.45  
No. 10-A-8144. With tile as above described and No. 10-A-1314 "Vesu-  
vius" Mounted Gas Grate ..... \$44.55  
Mantels furnished only with Grate Outfits as shown on pages 53 and 54.





No. 10-A-8061.

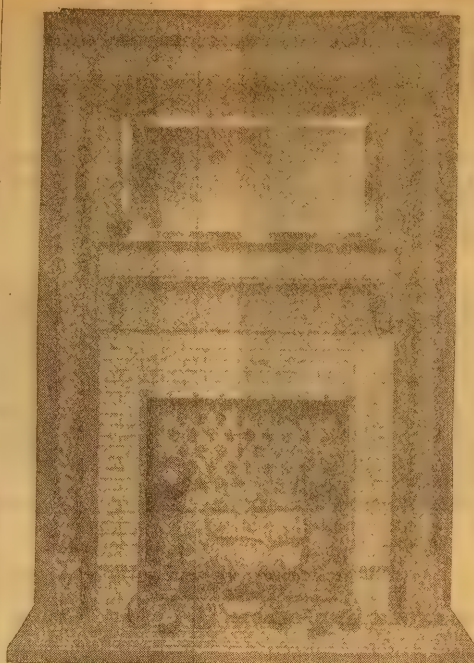
- No. 10-A-8061. Mantel with Woodwork and Mirror, only. . . . . \$24.50  
 No. 10-A-8062. With best quality enameled tile for the hearth and facing and No. 10-A-1354 "Mephisto" Grate Outfit, which consists of combination grate. . . . . \$33.85  
 No. 10-A-8063. With tile as above described and No. 10-A-1405 "Ajax" Grate Outfit, including summer front. . . . . \$40.00  
 No. 10-A-8064. With the tile as above described and No. 10-A-1314 "Vesuvius" Mounted Gas Grate. . . . . \$40.00  
 Mantels furnished only with Grate Outfits, as shown on pages 53 and 54.

\$24.50

For the price, we can confidently say there is no mantel on the market in the United States that can compare favorably with this number. Built of select grained woods, most of which look like quarter sawed. The columns are handsomely veneered oak quarter sawed and are 5 inches in diameter. The mirror is best French bevel plate, well set, and all in all this mantel would be a decided bargain at a great deal higher price than we have placed on it.

Stock Woods—  
**Oak and Birch.**  
 Height, 87 inches.  
 Width, 60 inches.  
 Tile Opening, 42x39 inches.  
 Projection, 3 in.  
 Bevel Plate Mirror, 18x36 inches.  
 Veneered Columns, 5 inches.  
 Oval Mirror, 75 cents extra.

All Best Rubbed and Polished Piano Finish.



No. 10-A-8161.

- No. 10-A-8161. Mantel with Woodwork and Mirror, only. . . . . \$22.00  
 No. 10-A-8162. With best quality enamel tile for the hearth and facing and No. 10-A-1354 "Mephisto" Grate Outfit, which consists of combination grate. . . . . \$34.35  
 No. 10-A-8163. With tile as above described and No. 10-A-1405 "Ajax" Grate Outfit, including summer front. . . . . \$37.50  
 No. 10-A-8164. With tile as above described and No. 10-A-1314 "Vesuvius" Mounted Gas Grate. . . . . \$37.50  
 Mantels furnished only with Grate Outfits, as shown on pages 53 and 54.

\$22.00

A neat, well-designed, well-balanced mantel, made from best selected flat grained woods, except the columns and shelf fronts, which are quarter sawed veneered of the best figure. The illustration speaks for itself and the price will clinch any argument against it. Workmanship as good as in the highest priced and the finish will please the most fastidious.

Stock Woods—  
**Oak and Birch.**  
 Height, 85 in.  
 Width, 60 in.  
 Tile Opening, 42x39 inches.  
 Projection, 3 in.  
 Bevel Plate Mirror, 18x36 inches.  
 Veneered Columns, 4 inches.  
 Swelled Shelf Veneered.  
 Oval Mirror, 75 cents extra.

All Best Rubbed and Polished Piano Finish.



No. 10-A-6751.

- No. 10-A-6751. Mantel with Woodwork and Mirror, only. . . . . \$17.90  
 No. 10-A-6752. With best quality enameled tile for the hearth and facing and No. 10-A-1354 "Mephisto" Grate Outfit, which consists of combination grate. . . . . \$27.25  
 No. 10-A-6753. With tile as above described and No. 10-A-1405 "Ajax" Grate Outfit, including summer front. . . . . \$33.40  
 No. 10-A-6754. With tile as above described and No. 10-A-1314 "Vesuvius" Mounted Gas Grate. . . . . \$33.50  
 Mantels furnished only with Grate Outfits, as shown on pages 53 and 54.

\$17.90

For the price, there is positively no better bargain in the market. Note the beautiful outline, handsome carving, which is solid wood, no makeshift composition stuff, and the bevel plate mirror. This mantel is made from best selected woods, except the columns, which are veneered. It is a style especially suited for moderate priced cottages.

Stock Woods—  
**Oak and Birch.**  
 Height, 82 inches.  
 Width, 54 inches.  
 Tile Opening, 36x36 inches.  
 Projection, 2½ inches.  
 Bevel Plate Mirror, 18x36 inches.  
 Veneered Columns, 3½ inches.  
 Wood Carved Caps.  
 Oval Mirror, 75 cents extra.

All Best Rubbed and Polished Piano Finish.



No. 10-A-8331.

- No. 10-A-8331. Mantel with Woodwork and Mirror only. . . . . \$17.65  
 No. 10-A-8332. With best quality enameled tile for the hearth and facing and No. 10-A-1354 "Mephisto" Grate Outfit, which consists of combination grate. . . . . \$27.00  
 No. 10-A-8333. With tile as above described and No. 10-A-1405 "Ajax" Grate Outfit, including summer front. . . . . \$33.15  
 No. 10-A-8334. With tile as above described and No. 10-A-1314 "Vesuvius" Mounted Gas Grate. . . . . \$33.25  
 Mantels furnished only with Grate Outfits, as shown on pages 53 and 54.

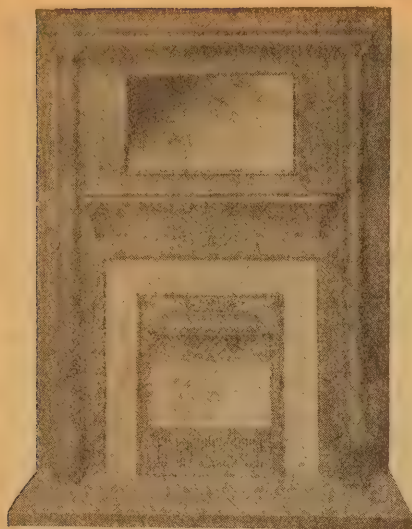
\$17.65

This mantel positively defies all competition. Specially designed, manufactured to meet the heavy demands for mission style mantels to match up with interior mission style trim, now so deservedly popular. There is nothing cheap or gingerbread about this—just good, plain solid material finished with bevel plate mirror of appropriate size. This is hand finished and will stand close scrutiny.

Stock Woods—  
**Oak and Birch.**  
 Height, 84 in.  
 Width, 60 in.  
 Tile Opening, 42x39 inches.  
 Projection, 3 in.  
 Bevel Plate Mirror, 18x36 inches.  
 Columns, 3 in.  
 Oval Mirror, 75 cents extra.

All Best Rubbed and Polished Piano Finish.





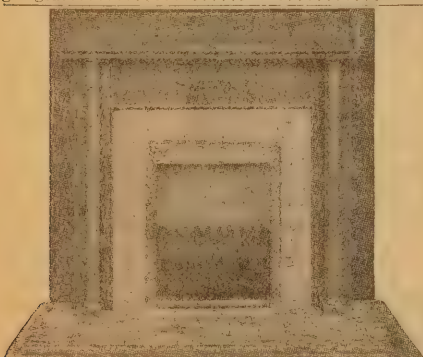
This handsome oak mantel, quarter sawed veneered columns with solid wood carved capital ornaments; wood, not composition material; excellent design and workmanship.

#### STOCK WOODS—OAK AND BIRCH

Height, 79 inches.  
Width, 60 inches.  
Tile opening, 36x36.  
Projection, 3 inches.  
Plain mirror, 16x28 inches.  
Columns, 3½ inches.  
Oval mirror, 75 cents extra.

#### ALL BEST RUBBED AND POLISHED PIANO FINISH

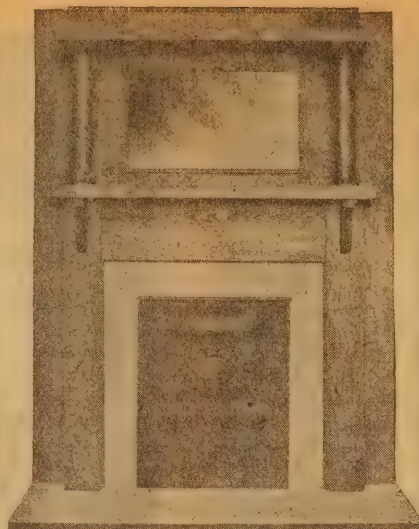
No. 10-A-7701. Mantel, with woodwork and mirror only.....\$14.90  
No. 10-A-7702. With best quality enameled tile for the hearth and facing, and No. 10-A-1354 "Mephisto" grate outfit, which consists of combination grate.....\$24.25  
No. 10-A-7703. With tile, as above described, and No. 10-A-1405 "Ajax" grate outfit, including summer front.....\$30.30  
No. 10-A-7704. With tile, as above described, and No. 10-A-1314 "Vesuvius" mounted gas grate.....\$30.40



Especially neat design for hall or bedroom. Well made, well finished, and at right price.

#### PLAIN OAK—GLOSS FINISH

Height, 4 feet 6 inches.  
Width, 4 feet 6 inches.  
Tile opening, 35¼x35½ inches.  
Projection, 3¼ inches.  
Veneered columns, 2¾ inches.  
No. 10-A-6B1. Base, with woodwork only.....\$4.50  
No. 10-A-6B2. With best quality enameled tile for the hearth and facing, and No. 10-A-1354 "Mephisto" grate outfit, which consists of combination grate.....\$13.85  
No. 10-A-6B3. With tile, as above described and No. 10-A-1405 "Ajax" grate outfit, including summer front.....\$20.00  
No. 10-A-6B4. With tile, as above described, and No. 10-A-1314 "Vesuvius" mounted gas grate.....\$20.10



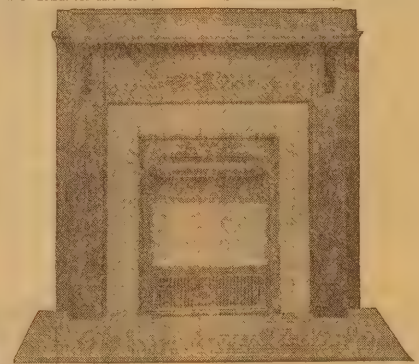
A simple and ornamental design, unexcelled anywhere for the price.

#### STOCK WOODS—OAK AND BIRCH

Height, 79 inches.  
Width, 60 inches.  
Tile opening, 36x36 inches.  
Projection, 3 inches.  
Plain mirror, 16x28 inches.  
Columns, 3½ inches.  
Oval mirror, 75 cents extra.

#### ALL BEST RUBBED AND POLISHED PIANO FINISH

No. 10-A-8021. Mantel, with woodwork and mirror only.....\$11.95  
No. 10-A-8022. With best quality enameled tile for the hearth and facing, and No. 10-A-1354 "Mephisto" grate outfit, which consists of combination grate.....\$21.30  
No. 10-A-8023. With tile, as above described, and No. 10-A-1405 "Ajax" grate outfit, including summer front.....\$27.35  
No. 10-A-8024. With tile, as above described, and No. 10-A-1314 "Vesuvius" mounted gas grate.....\$27.50



There is a growing demand for simple, straight mantel shelves. Here is one that will answer most requirements, at a price that will beat all competition.

#### PLAIN OAK—GLOSS FINISH

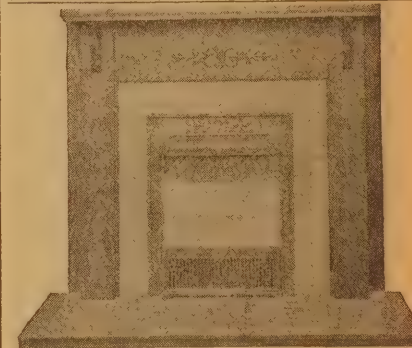
Height, 4 feet 6 inches.  
Widths, 54 inches to 5 feet.  
No. 10-A-774B1. Base, with woodwork only.....\$3.95  
No. 10-A-774B2. With best quality enameled tile for the hearth and facing, and No. 10-A-1354 "Mephisto" grate outfit, which consists of combination grate.....\$13.30  
No. 10-A-774B3. With tile, as above described, and No. 10-A-1405 "Ajax" grate outfit, including summer front.....\$19.45  
No. 10-A-774B4. With tile, as above described, and No. 10-A-1314 "Vesuvius" mounted gas grate.....\$19.55



Something on the same order as higher priced mantels. Good selected woods, quarter sawed veneered columns, with solid wood carved ornaments.

#### PLAIN OAK—GLOSS FINISH

Height, 6 feet 5 inches.  
Widths, 4 feet 6 inches to 5 feet.  
Tile opening, 36x36 inches.  
Projection, 3 inches.  
Plain mirror, 14x24 inches.  
Veneered columns, 2½-inch diameter.  
No. 10-A-7601. Mantel, with woodwork and mirror only.....\$9.80  
No. 10-A-7602. With best quality enameled tile for the hearth and facing, and No. 10-A-1354 "Mephisto" grate outfit, which consists of combination grate.....\$19.15  
No. 10-A-7603. With tile, as above described and No. 10-A-1405 "Ajax" grate outfit, including summer front.....\$25.20  
No. 10-A-7604. With tile, as above described, and No. 10-A-1314 "Vesuvius" mounted gas grate.....\$25.30



Excellent design. Cheapest and best for many purposes. Will last a long time and will answer the purpose for a combination mantel and shelf. Just the thing for small cottages and low priced houses.

#### PLAIN OAK—GLOSS FINISH

Height, 3 feet 9 inches.  
Widths, 54 inches to 5 feet.  
Tile opening, 36x36 inches.  
Projection, 2¾ inches.  
No. 10-A-00B1. Base, with woodwork only.....\$2.50  
No. 10-A-00B2. With best quality enameled tile for the hearth and facing, and No. 10-A-1354 "Mephisto" grate outfit, which consists of combination grate.....\$11.85  
No. 10-A-00B3. With tile, as above described, and No. 10-A-1405 "Ajax" grate outfit, including summer front.....\$17.90  
No. 10-A-00B4. With tile, as above described, and No. 10-A-1314 "Vesuvius" mounted gas grate.....\$18.00

All the above mantels furnished only with Grate Outfits, shown on pages 53 and 54



# Consoles

We are showing a line of up-to-date, well-manufactured, well-finished and well-designed consoles at prices that are from 25% to 50% lower than they have been sold at heretofore

## \$22.00

...Buys...

this Beautiful Console.

but does not include the mirror. Plain or bevel plate mirror costs extra, depending upon which is selected. See price and measurements below.

There is positively no ornament inside a house that adds more to the beauty, general appearance and refinement than a console, and no modern, up-to-date house is considered complete without one. We show here an especially appropriate design that will match up with almost any kind of interior style of trim and at the same time, has a style of its own that will compare favorably with the best on the market.

The same great care is used in the manufacture of our Consoles as in the manufacture of our Mantels. Where Quarter Sawed Oak is shown, the entire piece is solid quarter sawed, except the columns, which of necessity must be veneered. In case where Birch consoles are desired in Mahogany finish, the veneering on the columns and brackets is of solid mahogany, cut from the latest and most improved process of veneer cutting and positively guaranteed to be first class in every respect.

The mirror we furnish is the very best French plate.

We ship our consoles carefully packed and crated, and guarantee safe delivery. If there should be any breakage, all that is necessary is to have a note of same made on the freight bill and we will immediately replace without any extra cost to customer.

### Stock Woods: Oak and Birch

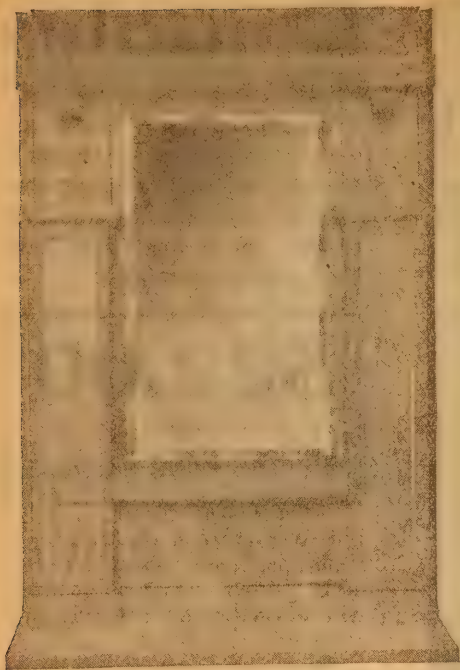
Height, 94 inches. Width, 60 inches. Mirror Opening, 34x54 inches.  
Veneered columns, 5 inches.

**No. 10-A-6401. Console, woodwork only. Price \$22.00**

**Beveled Mirror, extra \$13.00.** All Best RUBBED and

**Plain Plate Mirror, extra \$11.25.** Polished Piano Finish.





No. 10-A-9331.

Console, not including mirror.....	\$31.10
Bevel Plate Mirror, extra.....	10.30
Plain Plate Mirror, extra.....	8.75

ALL BEST RUBBED AND POLISHED PIANO FINISH.

**CONSOLE.****\$31.10**

This price does not include mirror. Plain or bevel plate mirror extra. See prices and sizes below.

Here is something that is of exceedingly handsome design. Combination Console and Bookcase, strictly mission style, quarter sawed hand polished piano finish. Art leaded glass doors. Nothing cheap or gaudy—simple, artistic, handsome design.

Stock Woods—  
**OAK and BIRCH**

Height, 87 inches.  
Width, 60 inches.  
Mirror Opening,  
30x50 inches. Columns  
12 inches.



No. 10-A-6341.

Console, not including mirror.....	\$29.35
Bevel Plate Mirror, extra.....	16.80
Plain Plate Mirror, extra.....	12.15

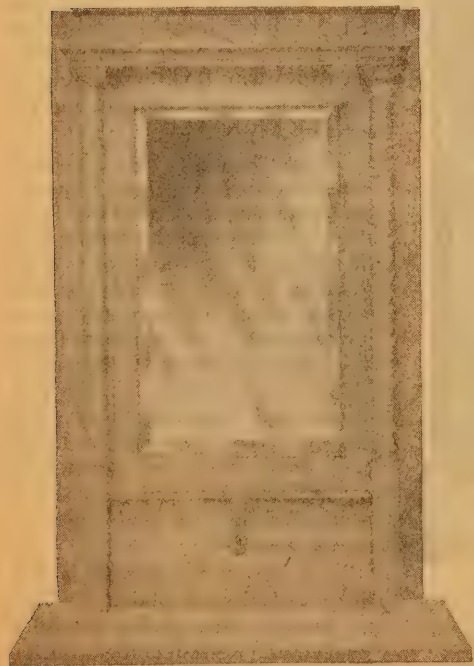
ALL BEST RUBBED AND POLISHED PIANO FINISH.

**CONSOLE.****\$29.35**

This price does not include mirror, plain or bevel plate extra. See prices below. This handsome, massive solid-looking console is of exceptionally good design, solid quarter sawed throughout, except columns. This has swell shelf and front below shelf, giving an unusually artistic appearance that cannot be had in other designs. It will match up with finish in first-class shape.

Stock Woods—  
**QUARTERED  
OAK and BIRCH**

Height, 96 inches.  
Width, 60 inches.  
Mirror Opening,  
40x60 inches. Pillasters  
half round,  
9 in. diameter.



No. 10-A-6441.

Console, not including mirror.....	\$15.00
Bevel Plate Mirror, extra.....	10.30
Plain Plate Mirror, extra.....	8.75

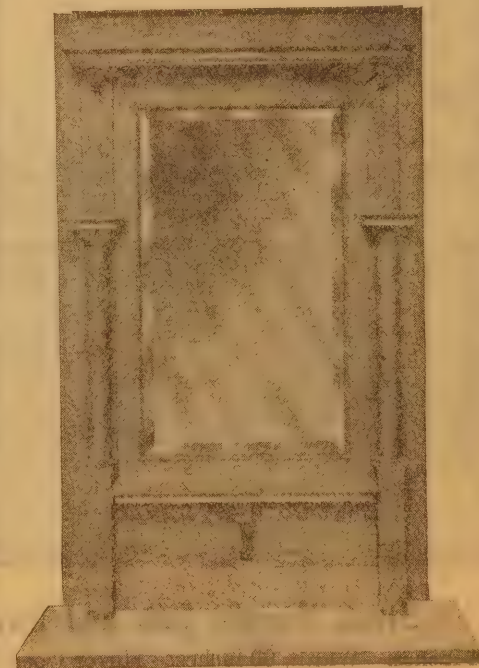
ALL BEST RUBBED AND POLISHED PIANO FINISH.

**CONSOLE.****\$15.00**

This price does not include mirror. See prices and sizes below. This console is a neat design, well-proportioned, solid wood, except columns which are quarter sawed. Carvings are hand solid wood carvings, no composition material on same. Well finished, all rubbed and piano polished and a decidedly good piece of work for the price.

Stock Woods—  
**OAK and BIRCH**

Height, 87 inches.  
Width, 54 inches.  
Mirror Opening,  
30x50 inches. Veneered  
Columns,  
3½ inches.



No. 10-A-6451.

Console, not including mirror.....	\$15.79
Bevel Plate Mirror, extra.....	10.30
Plain Plate Mirror, extra.....	8.75

ALL BEST RUBBED AND POLISHED PIANO FINISH.

**CONSOLE.****\$15.79**

This price does not include mirror. See sizes and prices below. A design something like the cut shown opposite except that the columns do not extend the full length being shortened about a third and have a shelf cap, which is ornamental and useful, made of solid select wood, quarter sawed, veneered columns, solid carving, no composition and, what is best of all, the price is absolutely right.

Stock Woods—  
**OAK and BIRCH**

Height, 87 inches.  
Width, 54 inches.  
Mirror Opening,  
30x50 inches. Veneered  
Columns,  
3½ inches.



# HOUSES AND BARNs

**Plans, Specifications and Material Lists Free**

**Architects Usual Price \$50.00 to \$100.00**

## READ THIS WONDERFUL OFFER

We make a specialty of furnishing material for practically complete house and barn designs. On the following pages we give you a few sample pages taken from our FREE Plan Book. This book contains nearly 100 pages, and if you are thinking of building a home or barn, by all means do not fail to send for a free copy of this valuable book. Our proposition is so clearly outlined in same that you cannot misunderstand it, and to any one intending to build, a careful reading of our Plan Book will be of invaluable benefit.

Ordering material for practically complete house or barn plans by mail is a simple matter through our system. You can do it right in your own home. You can get plans, specifications and material list containing full information on practically everything going into the construction of the building in one-tenth the time it would require if you had to go out and get all the information yourself in a round-about manner. Our facilities for furnishing material are practically unlimited. Think of being able to get all the material for a house or barn through one firm, one source and covered by our ironclad guarantee, and know that everything has been worked out to a nicety as regards the material in general, both as to design, style and quality, at the same time taking into consideration that all should harmonize.

### BUILDING MADE EASY.

To those who have built in the past it certainly must be plain what a wonderful convenience it is to be able to get all the material not only through one source, but at a great saving in price, as compared against the necessity of purchasing same piece-meal from the many different sources that are necessary in the usual method of building operations.

Our plan book has been prepared with the aim in view to produce designs to meet the requirements of all conditions and localities, and to approach near enough to individual tastes so that any changes suggested by individual preference may be made in any of these without destroying their distinctive features. We have cut away from all old and wasteful methods and ideas of design and building construction, and present many entirely new features in our designs not usually attempted in houses of moderate cost, and not included in many of the higher priced houses. All this is explained fully in our book and any one reasonably familiar with building construction with our plans, specifications and material list in hand can readily understand them.

The prices mentioned are approximate prices, F.O.B. cars Chicago, and are given to enable customers to select a design within their means. These prices may vary slightly either way, depending upon market conditions, and upon application we shall be pleased to name any intending purchaser our price delivered FREE OF ALL FREIGHT CHARGES F.O.B. CARS HIS HOME STATION, prompt, safe and sound delivery of every item guaranteed.

### BARNs.

Our barn plans are worked out with the same care both as regards practical construction, economy of cost and ease of construction, all of which is more fully described in our book.

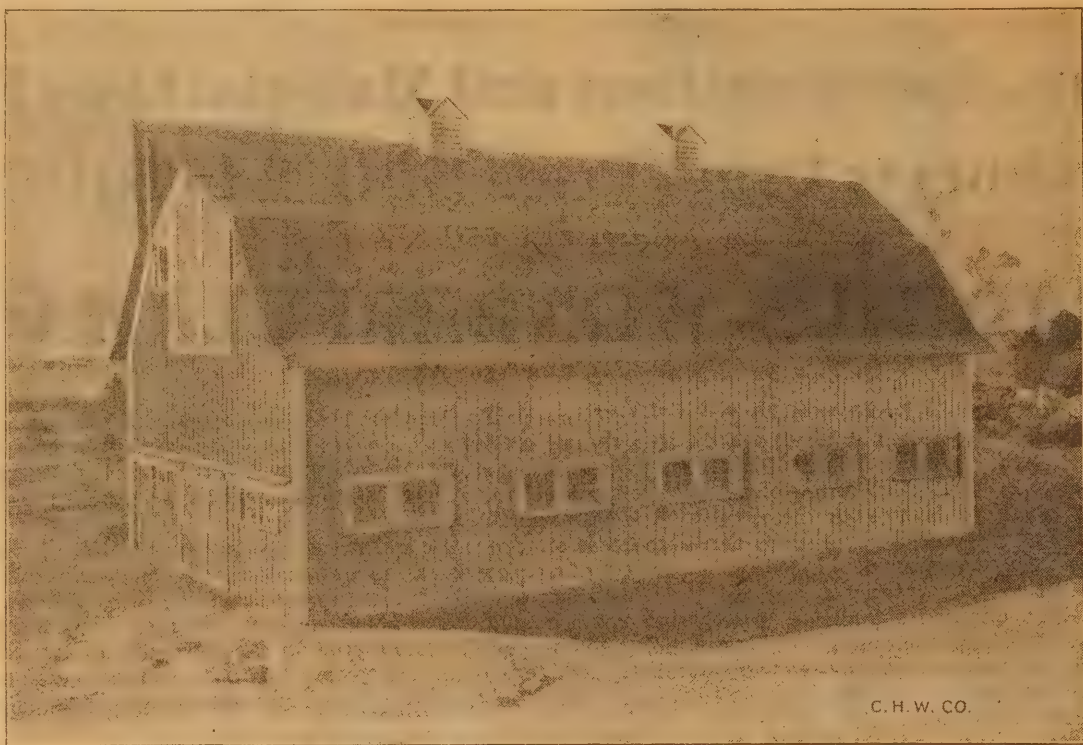
Our prices on barns as on houses are subject to market changes and are given as a guidance to prospective purchasers and may vary either way. Prices quoted are F.O.B. cars Chicago, and do not include the interior stable arrangement unless so specifically stated.

### OUR PLAN BOOK IS FREE.

Do not fail to send for it today. It will give you full and complete information regarding our Free Blue Print Plan, our Specification and Material List Offer. It contains full and complete information, and if you are interested at all you must send for it at once.



# "MAJESTIC" BARN DESIGN



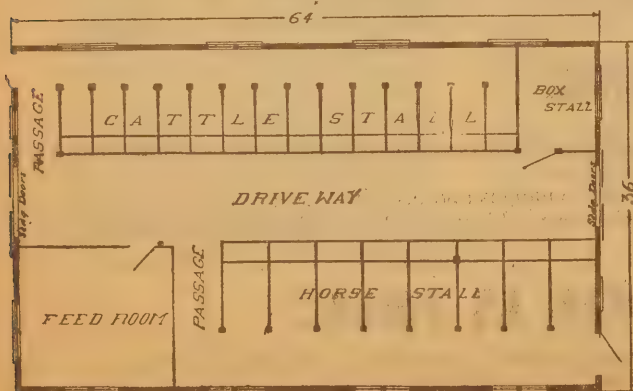
C. H. W. CO.

PRICES QUOTED ARE ONLY APPROXIMATE AND  
SUBJECT TO MARKET CHANGES.  
DELIVERED PRICES QUOTED ON APPLICATION.

**O**UR Majestic Barn Design, which was placed upon the market some months ago, is the most modern, up-to-date that has ever been designed. It is of the Joist Frame construction. That is, it is made up of built-up timbers. There is no heavy timber in the entire structure. The advantages of this method of construction are universally recognized for strength, rigidity, economy (both in cost of material and labor) and has the old style timber construction "beaten to a frazzle." The roof is of the self-supporting pattern, each rafter forming a truss, and doing away with all the perloins and posts in the hay mow, which always interferes with the operations of the hay carrier. The special advantages of this construction is the fact that timbers may be built-up of any length without weakening them at any point by reason of joints or splices. The braces, girders, etc., are so placed that the strain is distributed equally at all points and a perfect rigidity of the frame is insured that cannot possibly be equaled by the old style timber construction. In addition, this style of construction gives the largest room for the size that it is possible to obtain, there being no wast space anywhere. It is by all odds the most economical, cheapest and for general purposes, the best barn that a farmer can possibly put up.

We offer this Majestic design in various sizes of the uniform width of 36 feet. The stable ceiling is intended to be 8 feet in the clear with doors at each end and a driveway through the center of the entire length of the building, with the cattle and horse stalls arranged on either side.

The entire upper floor of this barn is devoted to the storage of hay and other fodder and large doors are placed in one gable for the operations of the hay carrier. The barn is exceedingly well lighted and perfectly ventilated, which is one of the most essential features of the modern barn. To insure further sanitary conditions, this barn should be placed on a concrete foundation about a foot above the stable floor, which should also be made of cement. Prices do not include material for stable partitions. We furnish this design in the following sizes:



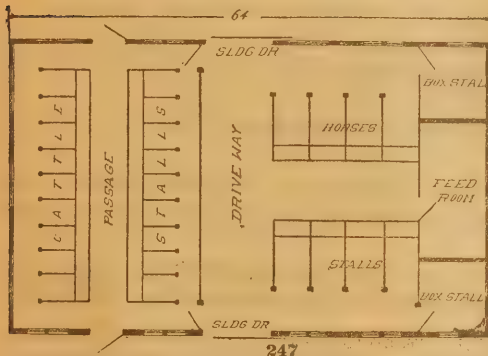
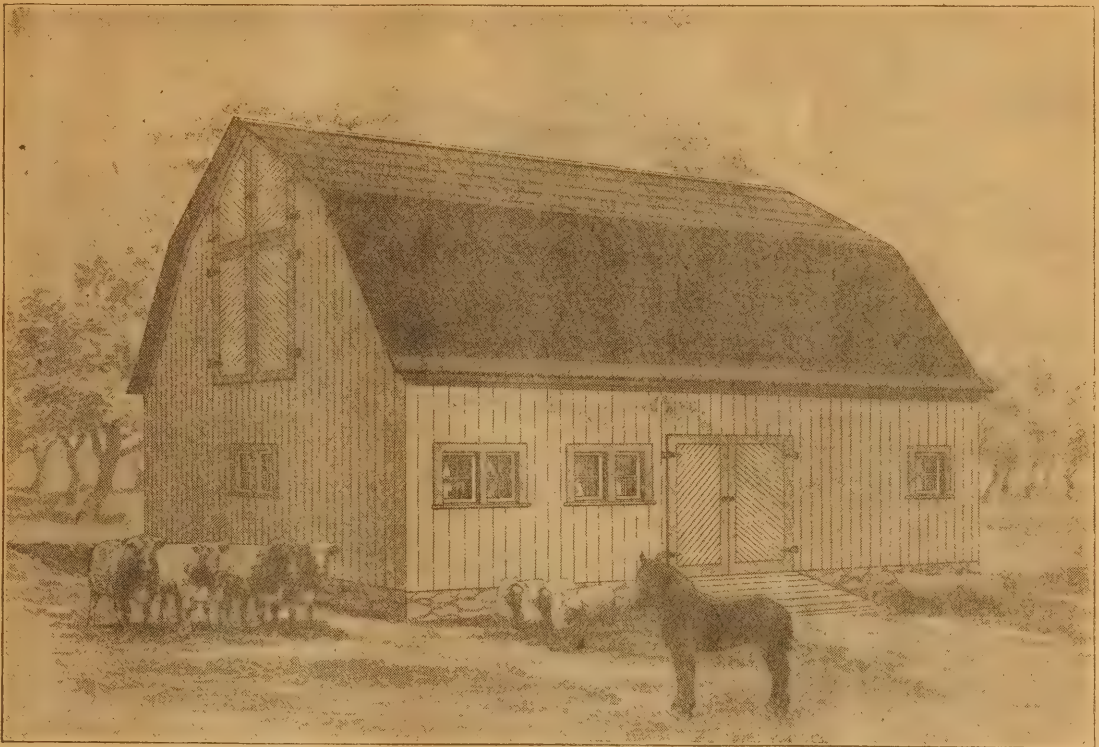
SUGGESTION FOR FLOOR PLAN FOR MAJESTIC BARN, NO 222,

## SIZES AND PRICES

Name.	No.	Size.	Height to Plate.	Height to Top of Roof.	Price.
Majestic	220	36x 32	18 feet	38 ft. 6 in.	\$395.00
"	221	36x 48	18 "	38 " -6 "	498.00
"	222	36x 64	18 "	38 " -6 "	620.00
"	223	36x 80	18 "	38 " -6 "	740.00
"	224	36x 96	18 "	38 " -6 "	858.00
"	225	36x112	18 "	38 " -6 "	975.00



## OUR "PREMIUM" BARN DESIGN



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we believe this arrangement will suit the majority of our customers owing to the economy in feeding the stock which this arrangement makes possible.

The stable ceiling proper is 8 ft. high in the clear with girders supporting the hay loft which extends the entire length of the barn. The roof is of the Gambrel, or self-supporting style, there being no posts or perloins in the center to obstruct the hay-carrying apparatus. This barn has a hay capacity of  $1\frac{1}{2}$  tons for every foot of its length and will hold all the hay necessary for the stock which it accommodates.

The barn is well lighted and ventilated, and if placed on a concrete foundation will have all the sanitary conditions of the most modern, up-to-date barn.

The material we supply for this as for all other designs is strictly BRAND NEW stock as outlined in our Material Specifications on a former page to which we invite your attention. We also want to repeat that we furnish free plans, specifications and a complete list of material with each of these designs in accordance with our FREE PLAN offer already explained.

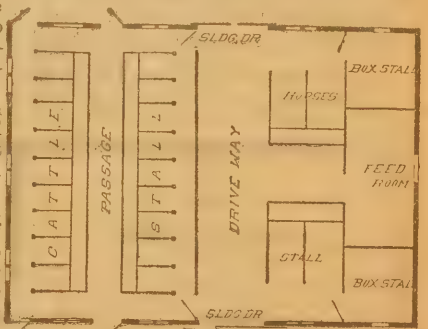
We furnish this design in the following sizes and shall be pleased to answer any inquiries regarding same. Prices do not include material for Stable partitions.

NAME.	NUMBER.	SIZE.	HEIGHT TO EAVES.	HEIGHT TO TOP OF ROOF.	PRICE.
Premium	245	40x42	12 feet	32 feet	\$480.00
Premium	246	40x56	12 feet	32 feet	\$590.00
Premium	247	40x66	12 feet	32 feet	\$700.00

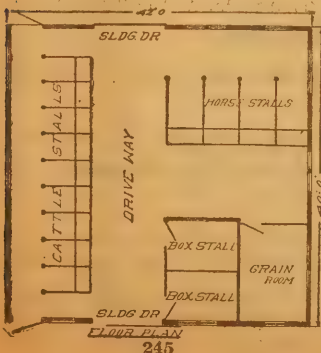
THE general construction of this design is similar to our "Majestic" barn design. It is of the joist frame or built-up timber style of construction and is in many respects the same as our Majestic design except that it is only 12 feet high. In this design the driveway is across the barn to permit driving through with fodder for feeding purposes. The smallest of these designs will accommodate nine head of cattle and four horses besides having 2 box stalls and large feed room. While the photograph shows but one pair of

doors on each side of the barn, we furnish sufficient material for two smaller doors in the rear of the cattle stalls wherever our floor arrangements are followed.

The interior arrangements shown on the stable floor may be altered when individual needs require, but



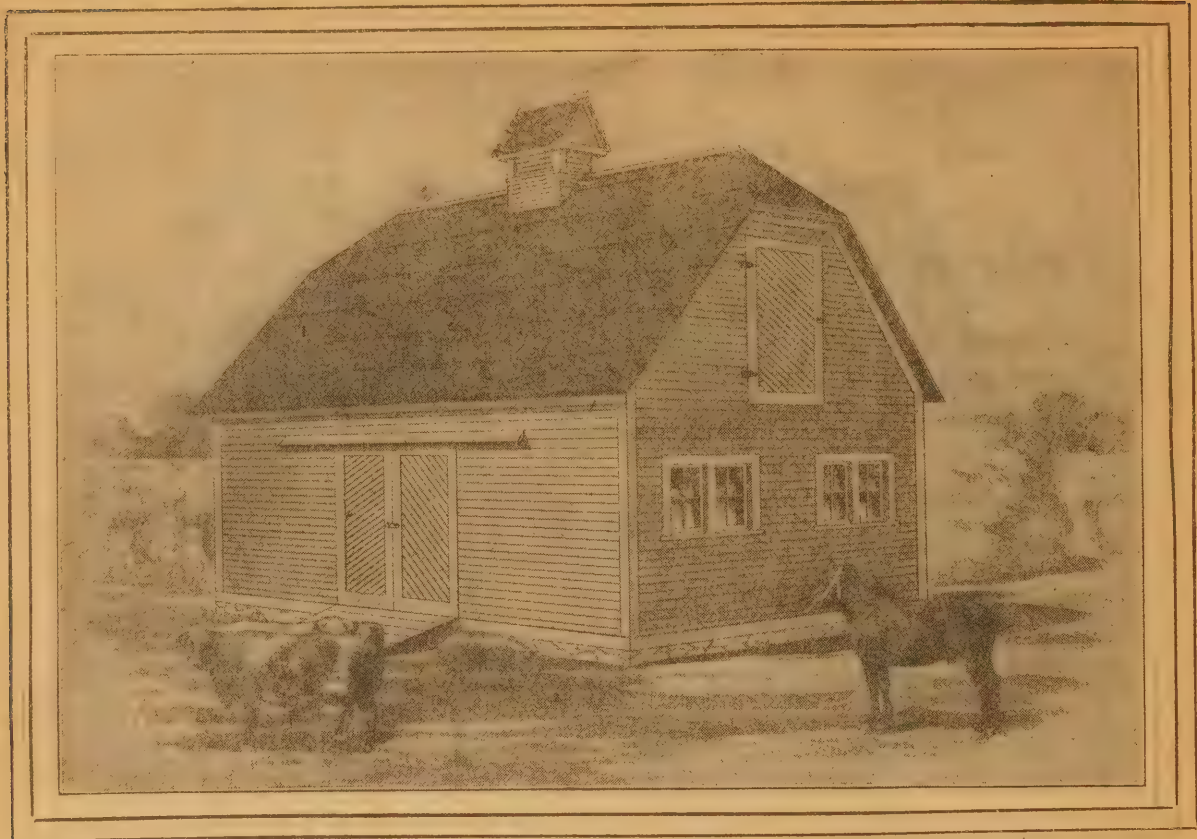
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245



## OUR "SUPERIOR" BARN No. 262

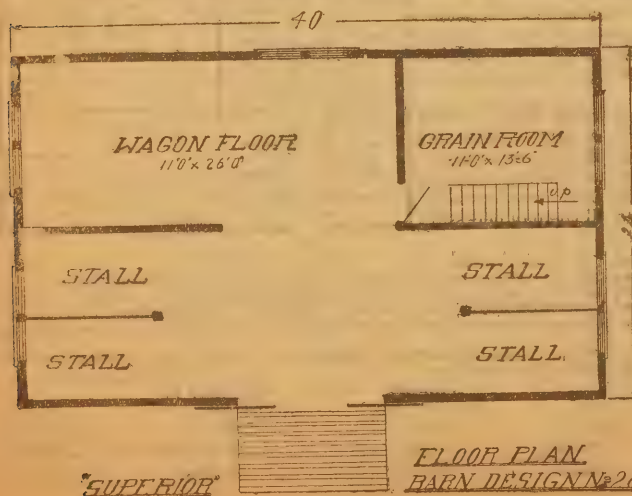


**I**N this design we show a moderate size barn for city or suburban use where a few horses and one or two cows are kept. The appearance of the barn is everything that can be demanded in a barn of this class. The construction is substantial and cheap, yet not cheap enough to detract from its general appearance or usefulness. It is of the balloon type of construction with 2 x 6 for studding and drop siding for the exterior.

The floor is of cement as well as driveway leading to it, and the barn should be placed upon a concrete foundation as shown in our Blue Print Plans.

The size of this barn is 23 ft. 6 in. wide by 40 ft. in length and 12 ft. 6 in. to the top of the plate. Stable is 9 ft. in height with a hay mow above. The capacity of the hay mow is ample for a barn of this size; altogether we believe it meets the requirements of the class for which it is intended.

The material we supply for this building is fully explained on another page, as is also our **Free Plan Proposition** which is applicable to this design as well as to all others.



The price we are asking for the material makes it a big bargain proposition which those who contemplate building should take advantage of without delay.

Size 23' 6" x 40' 0". Price \$245.00 including all necessary material for Stable partitions.

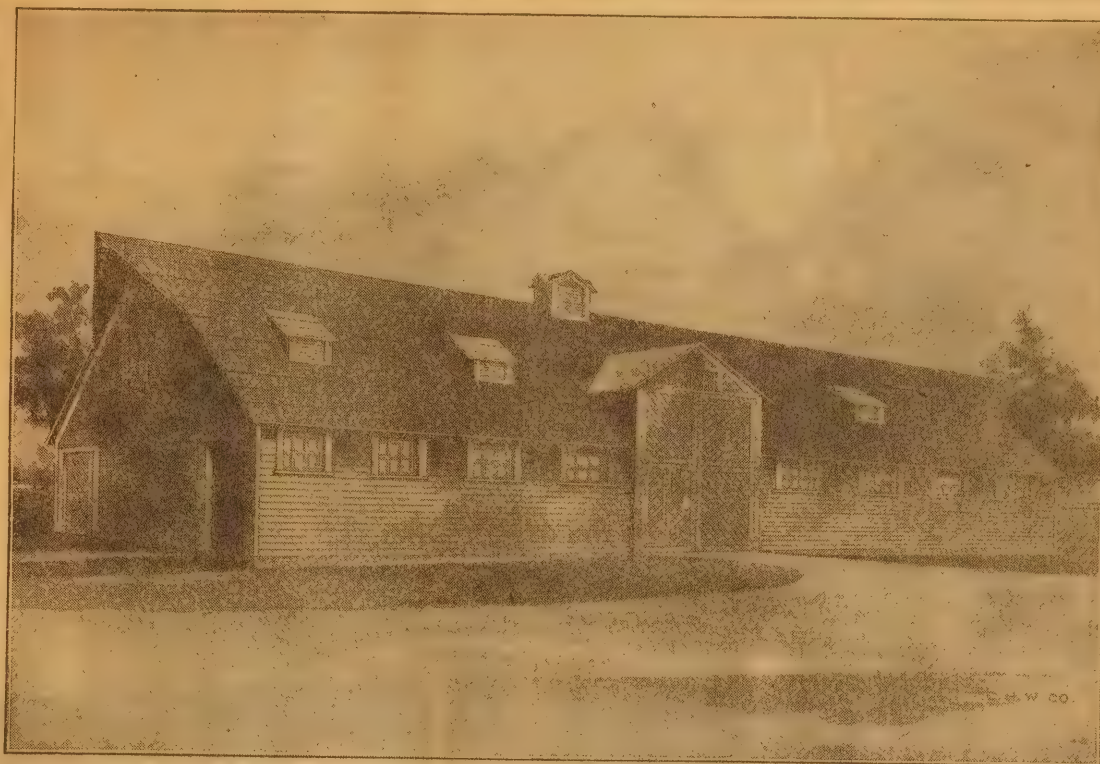
We can furnish our Premier guaranteed barn paint for any of these designs.

We know that, considering price and quality, Premier is the best barn paint on the market for this purpose.

We have the amount required for two-coat work on all of our designs and promptly upon applications will be pleased to name you a price. Also, bear in mind we can furnish Hay Cartier apparatus for any of these barns. Prices quoted in our general catalog.



# "STAR" CATTLE AND HORSE BARN



**I**N our Star Design we show a modern cattle and horse barn which we believe will meet the requirements of many farmers who make a business of raising stock on a moderate scale. This building is of the balloon type of construction as shown more fully by our Blue Print Plans. The hay-mow extends to the ground floor and also above the grain rooms on each end of the barn. Cattle stalls are arranged on one side of the hay-mow, while the horse stalls are arranged on the other side. The feed alleys between the hay-mow and stalls makes feeding economical and easy. These feed alleys communicate not only with the hay-mow but also

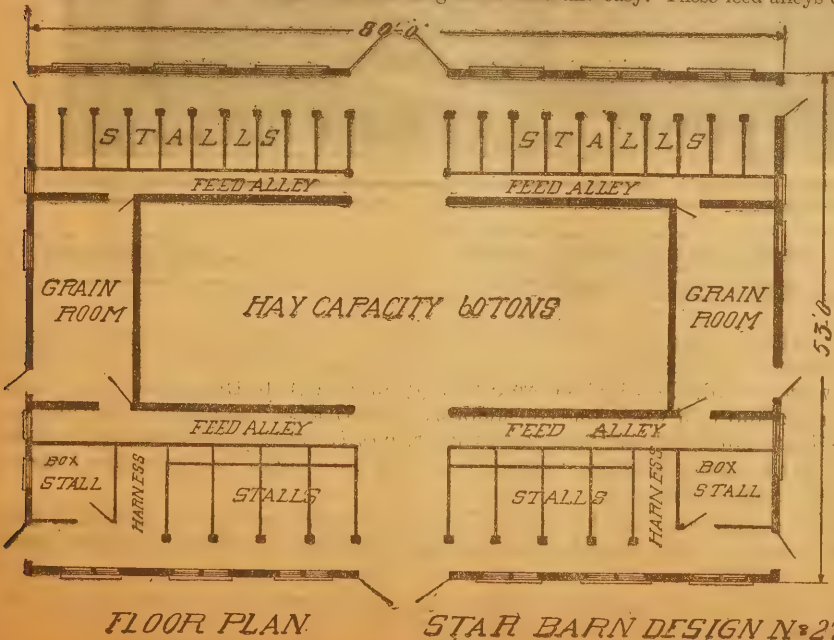
with the grain rooms at each end. A driveway is provided through the center of the barn, and if desired it may be carried through the hay-mow as well, which feature would, however, reduce the capacity of the latter considerably.

We particularly call your attention to the numerous windows shown in the ground floor plans. There is no part of this structure that is not amply lighted, and the windows together with the ventilation in the roof furnish an ample supply of fresh air to every part of the building.

We list this barn in one size only, 53 feet wide by 80 feet in length, but if this size does not give sufficient stable capacity for cattle, a lean-to can be built at one end which will furnish sufficient room for fifteen additional head. In this case, the grain room at one end could be consolidated with the grain room at the other to provide for easy access to the stock at that end. In this way, a 12-foot addition at one end would furnish room for 35 head of cattle without interfering with the horse stalls as shown in the plans.

This barn should be placed upon a concrete foundation and the cement floor should be sloped towards each side so that the space devoted to the storage of hay could be kept dry and the stables kept properly drained.

The size of this barn as stated is 53 feet wide by 80 feet long, 8 feet to the eaves and 24 feet to the comb. Price, without stable material.....\$550.00





## HOUSE DESIGN No. 6



SIZE, 23'6" x 33'0"  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$650.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

7 ROOMS AND BATH

**H**OUSE Design No. 6 is known practically from one end of the United States to the other although it has not been on the market for more than six or eight months. It is positively the most popular design ever placed on the market. The extreme low price of \$650.00 at which we originally offered it to the public was made when material, both as regards lumber and mill work, was considerably lower than at the present time and we have since added quite a few improvements that would ordinarily increase the price of this house considerably, but on account of the large amount of advertising the design has been given, the large number of orders received for it, we are still furnishing the material for it at the same low price.

No. 6 has been purchased by customers from all sections of the U. S. to which it can be shipped profitably and has given universal satisfaction. On the opposite page we give you a general description and also the necessary floor plans.

We can also furnish this design, which is our No. 16, in a larger size, being 2 ft. longer, 2 ft. wider and 1½ ft. higher for \$98.50 additional to the above price.



## HOUSE DESIGN No. 6—Cont'd

**H**OUSE Design No. 6 is an ideal house for a corner lot but with its excellent lay-out it is equally desirable regardless whether it is placed on a corner or not. The plan in general is laid out with a view to beauty, economy and utility.

You enter the reception hall which is well lighted and embellished with a handsome stairway to the second floor. A large cased opening to this room from the parlor is another beautiful feature and entering the parlor we have two bay windows, not generally obtained without considerable expense. From the parlor we pass through another cased opening into the dining room. This is the most attractive room, the wall space being unbroken and lighted by a double window which gives ample light. In addition, we have placed a handsome casement sash in the rear wall, glazed with leaded crystal sheet glass, which adds much to the general beauty of the interior. The dining room is connected conveniently with the kitchen and pantry. From the pantry we have a stairway to the basement and from the kitchen an exit to the rear porch. This entire lower floor is laid out to save the house-keeper many useless steps, which are generally necessary in homes built on poorly worked out plans.

From the main stairway in the reception hall, we get up-stairs landing in a hallway from which direct access can be had to the three bed rooms and small room at the rear which may be arranged for either bed room or bath room. The entire house is exceptionally well lighted and ventilated. The two main bed rooms have large closets and if additional closet space is needed it is an easy matter to place one in the bath room and one in the small front chamber.

This design affords an opportunity of heating with either hot water, steam or stove heat in the most economical and convenient manner. The arrangement of rooms and exposure is a matter which should be carefully considered. House No. 6 has been built in the city, suburb and country hundreds of times, being arranged for the various conveniences at hand at the respective locations.

The exterior of this house presents an exceptionally pleasing and beautiful appearance to the eye. It will decorate any location and fit in with any surrounding. If built in the city, it will be found most agreeable as a city home, and when built in the country, with all the beauty of natural scenery, landscape and plenty of ground space, one can easily appreciate its beautiful appearance. Our plans for this house, like all our other houses, are very complete and with the aid of our material list, which shows what we propose to furnish for every item going into its construction, giving our catalog number and detail, anyone can see at a glance the excellent quality of material we furnish and when our plans are used, together with our specifications and material list, an ordinary carpenter will understand them perfectly and will be able to pursue the construction of this house to completion in a most satisfactory manner.

**Read carefully our Free Plan offer, also our Material Specifications as outlined on the preceding pages of this book.**

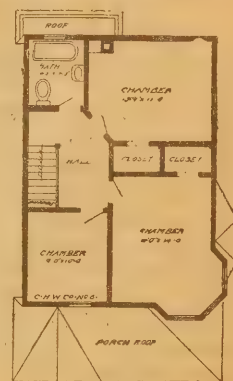
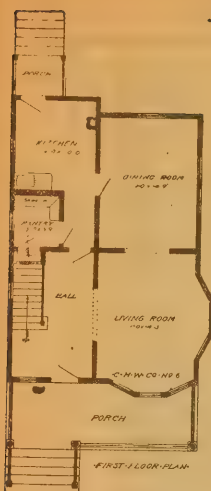
Don't forget that this house can be equipped most economically with either hot air, hot water or steam heating plants and also bathroom outfit.

**A Complete Plumbing Outfit.** We suggest our Bath Room Outfit No. 3½, complete as listed and described in our catalog together with one No. 5 A 625 cast iron white porcelain enamel kitchen sink, one 30-gallon iron range boiler complete with stand tube and couplings for iron pipe and also including all the necessary roughing-in material to install these fixtures in a first-class workmanlike manner above the ground line with full instructions and blue prints showing the installation of same, for the very low price of.....\$92.50

This is for strictly "A" grade material:

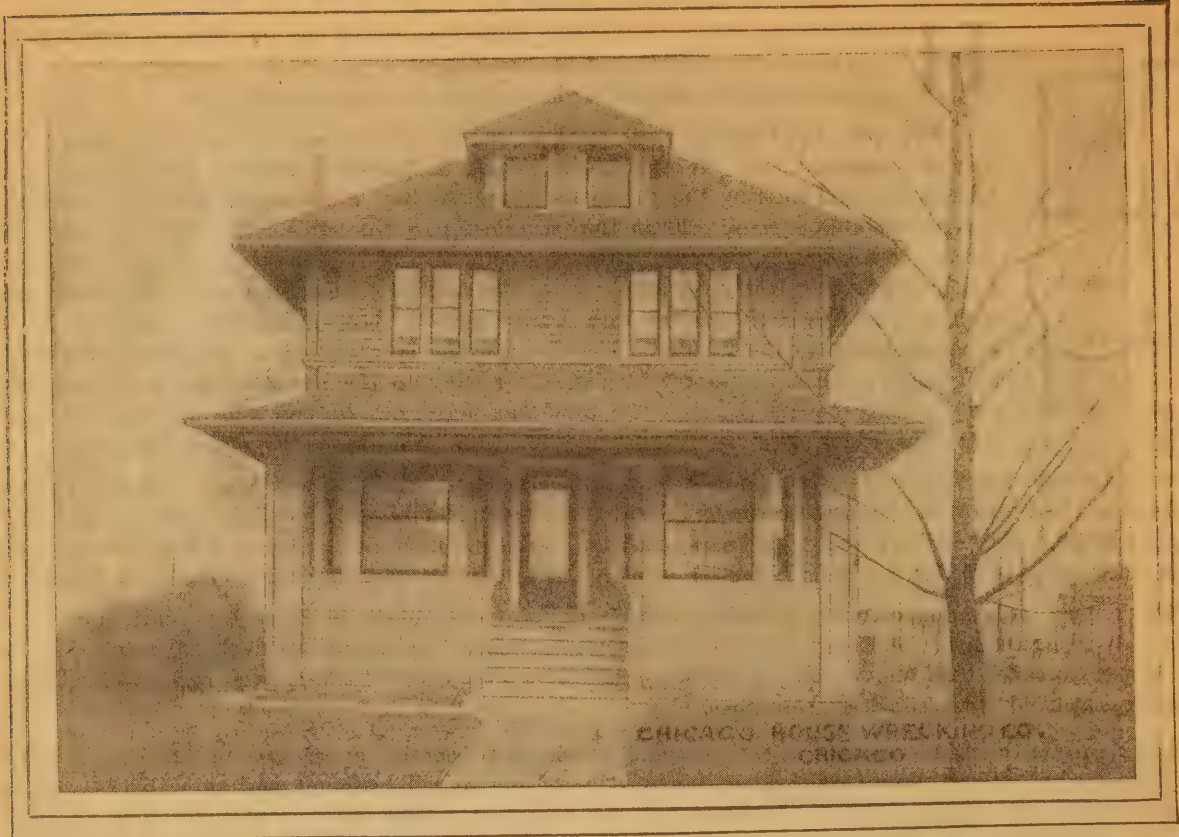
Paint for entire job including hard oil finish for interior for two coat work (including porch floor paint but no other floor or roof paint.....	\$26.54
Hot Air Furnace.....	\$99.36
Steam Heating Plant.....	\$180.84
Hot Water Heating Plant.....	\$216.56

The above prices include everything as per our detail specifications, which we will gladly furnish on application.





## HOUSE DESIGN No. 154C



SIZE, 30'x30'  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$880.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

9 ROOMS AND BATH

IN the above we show a design that is 30 ft. wide by 30 ft. deep, and it is especially designed to meet the requirements of that class of people who do not wish to be crowded for room in their homes. The massive porch on the front and the wide projecting eaves as well as the handsome dormer in the roof give the external appearance a certain attractiveness that is not always possible to obtain in houses of this size. Front door opens directly into the center hall which communicates by cased openings with rooms on either side. These cased openings may be enlarged to suit individual tastes so that the entire front of the house may be thrown into one large room. This arrangement is in great demand at the present time and offers greater advantages for domestic enjoyment than any number of smaller rooms. The wide stairway leading to the second floor lands in the hall which is lighted by a window on the stair landing. There are five good sized bedrooms and bath room on the second floor with plenty of closet space. Altogether, this house is not only roomy and comfortable but modern in every respect. The interior arrangement may be altered to meet individual requirements without increasing its cost, and to those who like comfortable dimensions and modern conveniences, this design offers many advantages.

The material we furnish for the construction of this house is strictly **Brand New** stock and of exceptionally good quality. We invite your attention to the detailed explanation in the preceding pages of this book for further information along these lines. We furnish **Free Plans**, specifications and list of material with each of our designs.

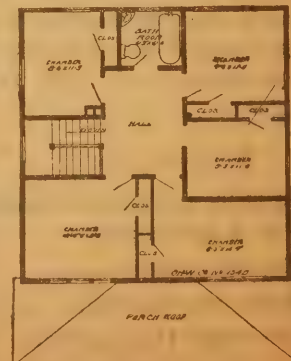
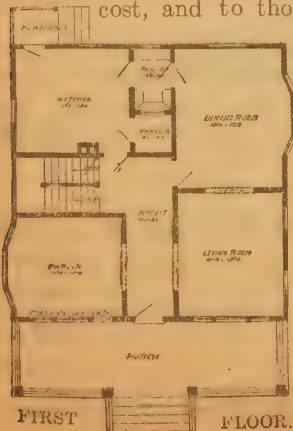
**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....\$98.00

Paint for entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....\$29.05

Hot Air Furnace.....\$138.55

Steam Heating Plant.....\$233.34

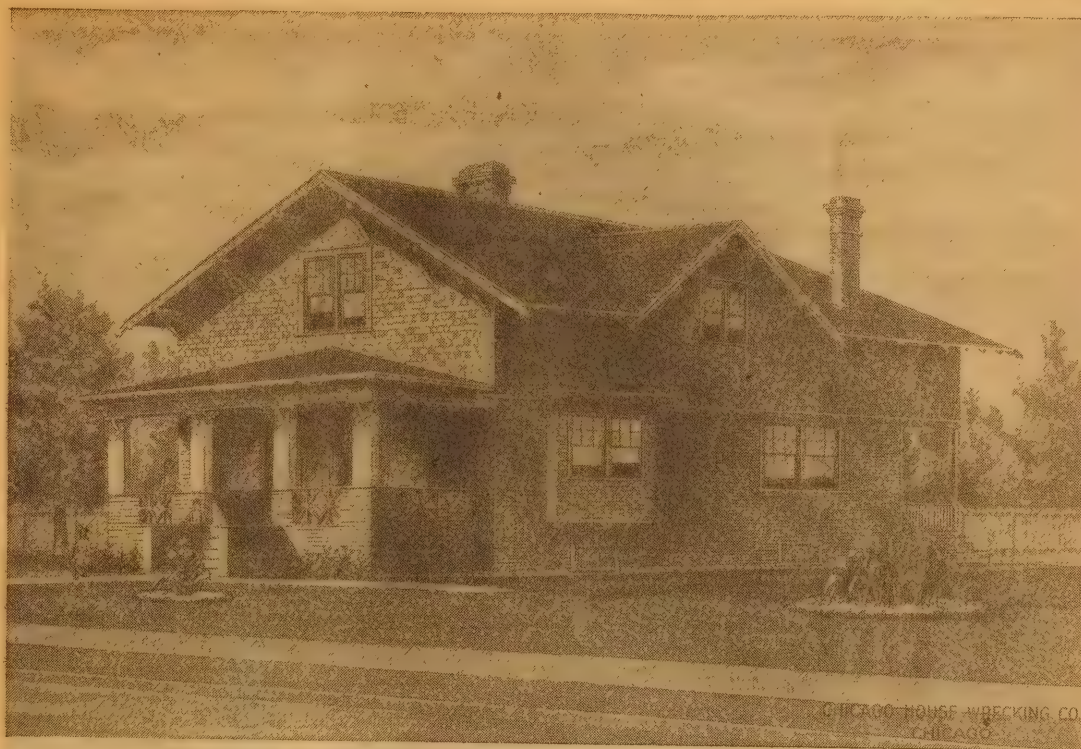
Hot Water Heating Plant.....\$290.64



SECOND FLOOR.



## HOUSE DESIGN No. 115



SIZE, 28' x 31' 6"

EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$760.00

(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

7 ROOMS AND BATH

In presenting House Design No. 115, we are showing one of the very best and most practical semi-bungalow type designs, the result of careful study and work-out. It is a house that meets the requirements of those wishing to take advantage of all possible space as well as arrangement of conveniences. There is a growing demand for houses of this class for the reason that they offer the maximum of convenience at a minimum of expense. Here we have a complete house on one floor—dining room, living room, bath room, pantry and spacious closets all on the first floor. The dining room and living room can be thrown together and will make a combined room of 13x27. The chamber, with the bath room immediately adjoining, is a great convenience, which is readily appreciated. The kitchen is thoroughly modern, has a good-sized pantry, as well as an opening on the porch for receiving ice without the necessity of carrying same through the kitchen—which usually means that you have to stay at home and wait for the ice-man, and, when he gets through, wash up the floor. There is also a convenient entrance to cellar direct from the kitchen, enabling one to get to this part of the house regardless of weather conditions.

In this design, we have eliminated the reception hall and fancy stairway, following more closely European lines laid out along strictly common sense, sanitary and labor-saving ideas, but at the same time utilizing every inch of space. Through the living room we have direct entrance to stairway, also passage to chamber. The stairway leads up to second floor without a turn, giving entrance to the three rooms within easy reach of the landing. All rooms are well ventilated, have spacious closets set aside for each chamber with a window in each closet. The closets are exceptionally large, being about 7x5 each. The sewing room can be arranged as a child's room or as an additional bath room, being 7x11 in size.

The general construction is modern, up-to-date and solid in every respect. Siding is used below the belt course as shown in the photograph, shingles above. A very artistic effect is gained by brackets supporting the overhang of the roof, with exposed rafters for the entire design. The outside wall is run down to within five inches of the ground, carrying out the general effect of the bungalow style and doing away with the necessity of expensive foundation. This design can be depended upon to be serviceable in every respect. It is easily and cheaply constructed and housekeeping within it should be a delight.

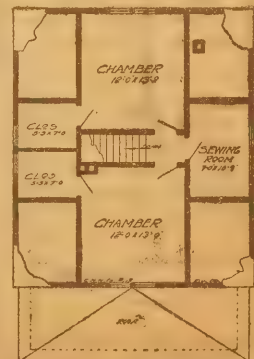
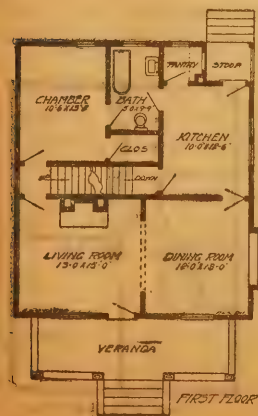
**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work, so as to complete the entire job to the ground line—all material "A" grade and guaranteed for . . . . . \$92.50

Paint for entire job, including hard oil finish for interior or two-coat work (including porch floor paint, but no other floor or roof paint) . . . . . \$18.46

Hot Air Furnace . . . . . \$89.80

Steam Heating Plant . . . . . \$171.68

Hot Water Heating Plant . . . . . \$204.42





## HOUSE DESIGN No. 156



SIZE, 24' 6" x 30' 6"  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$685.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

8 ROOMS AND BATH

**T**HIS design shows a further development of the two story bungalow pattern with veneer cement on the outside; a method of construction very popular. The size of this house is 24' 6" wide by 30' 6" deep, and with its massive porch across the front and heavy dormer in the roof, has a very substantial and lasting appearance.

The interior of this house may be developed into many changes and artistic arrangements. The extreme simplicity is one of the crowning features of this design and makes it so desirable to many people. The interior arrangement is very much like some of our other houses but still has individuality enough to give it distinction. The house has seven rooms, hall, pantry, bath room and four closets. It is extremely well lighted and ventilated and possesses every convenience. Communication between rooms is facilitated by large case openings. The stairway is modern in design and construction and easy of ascent. The closets are properly and conveniently placed and everything has been arranged to meet the requirements of a modern home.

In the selection of materials for the construction of this design, we have been governed by the general character of the house. Everything we supply is strictly brand new stock, the quality being in keeping with the general design.

We refer you for a more detailed explanation of the material we furnish to our "Material and Specification" section and also ask you to carefully read our Free Plan Proposition as outlined on preceding pages.

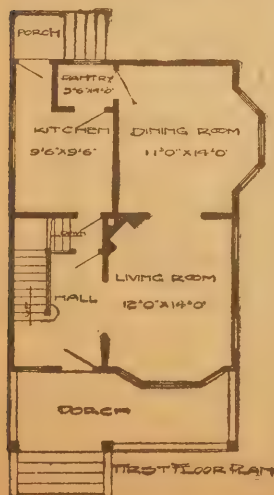
**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....\$92.50

**Paint for entire job**, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint)...\$14.94

**Hot Air Furnace**.....\$107.10

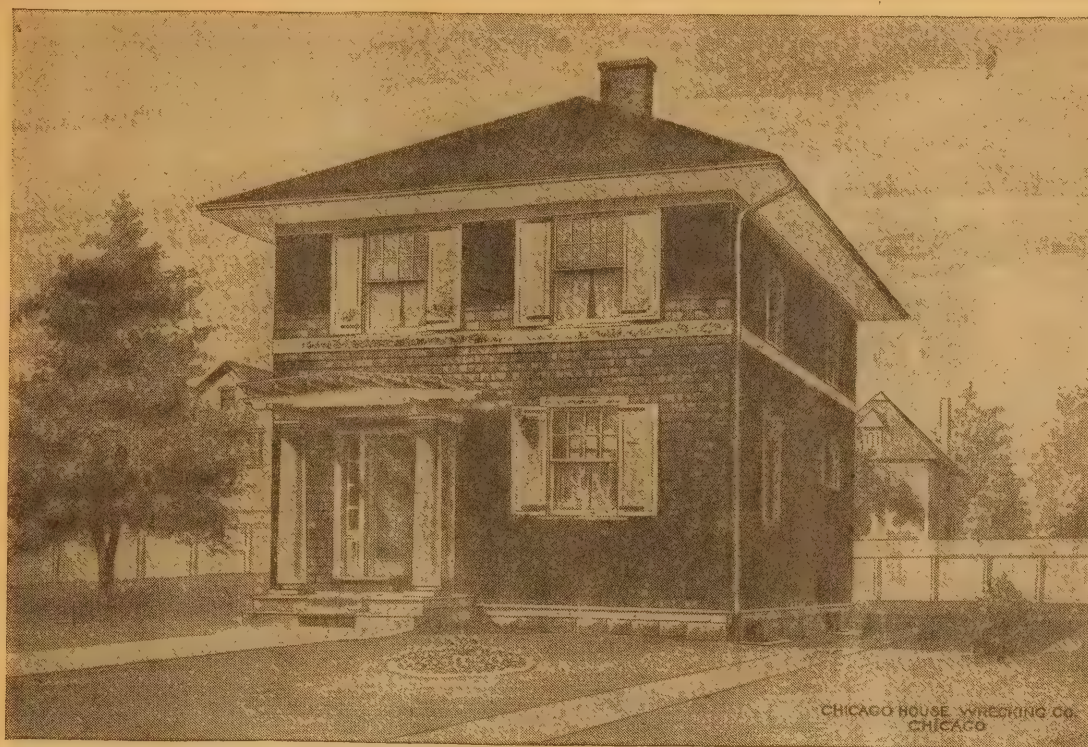
**Steam Heating Plant**.....\$179.01

**Hot Water Heating Plant**.....\$212.52





## HOUSE DESIGN No. 126

CHICAGO HOUSE WRECKING CO.  
CHICAGO

SIZE, 22' x 30' 6"  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$645.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

7 ROOMS AND BATH

**W**E have here a design of house on the bungalow type, having reception hall, living room, dining room, kitchen and pantry on the first floor, with three ample sized chambers and alcove chamber as well as bath and spacious closet on the second floor.

Front entrance is made directly into the reception hall, having direct passage through the house to kitchen. Immediately adjoining the reception hall, we have the living room, separated only by a cased opening; thus the two compartments are practically both thrown into one large living room.

The stairway is an open stairway to landing, and in this exceptionally neat arrangement, we have designed a seat immediately below the staircase, conforming to the general outline of this design. Dining room is arranged with seat in the bay, having three French leaded glass sash above; also leaded glass window on side so as to give a beautiful interior effect.

The stairs land on the second floor, practically in the center of the house, making access to all rooms and bath convenient and close at hand.

All the material for this unusually neat house is of the best quality and all interior finish and floors clear stock. We can furnish a Colonnade to fit in the cased opening between the hall and living room if desired at a small additional cost.

The design is also well arranged as regards plumbing and heating fixtures, and all in all, we have made a careful study to place this house on the market as something entirely new and out of the ordinary and have it appeal to persons of good taste, who wish to build economically and get the very best possible results.

The exterior of the design is strictly classic, made to conform to the "Old English" style of architecture in every particular, having shutters for all windows in front and side lights on the door.

Our bill of material will call for shingles for this particular design. However, we can also furnish it with the upper half in shingles and the lower half in siding, or vice versa at the same prices.

Do not forget to read our Free Plan offer as outlined, and our Material Specification section which will give you full information relative to the excellent quality of all the material we furnish for this house.

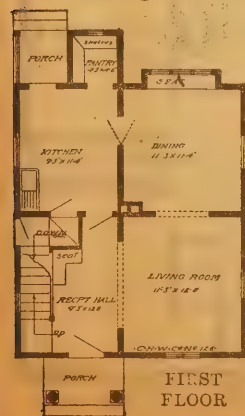
**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....\$110.00

**Paint** for entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....\$ 23.08

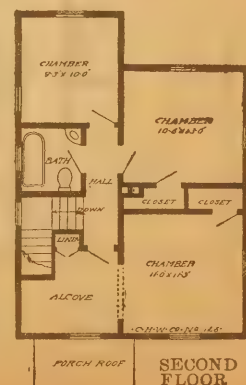
**Hot Air Furnace**.....\$100.20

**Steam Heating Plant**.....\$173.51

**Hot Water Heating Plant**.....\$194.40



FIRST FLOOR



SECOND FLOOR



## HOUSE DESIGN No. 130



SIZE 25'10" x 29'6"  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$715.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

8 ROOMS AND BATH

**T**HIS house is one of the most popular designs ever built. It pleases a large number of people and is a design that can be most economically constructed. It has eight rooms and bath, with pantry, vestibule entrance and large hall; the hall communicating directly with kitchen, parlor and dining room. Note carefully the four good-sized, well-ventilated bed rooms with bath on the second floor conveniently placed, and the large closets with which all the bedrooms are provided.

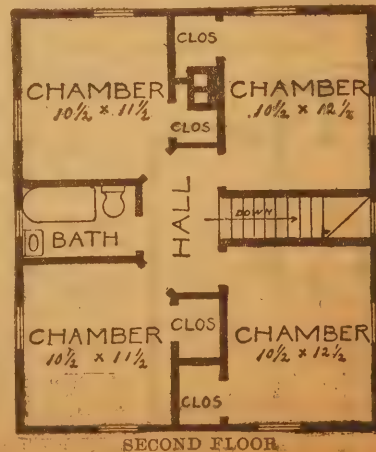
It is an ideal house in many respects. Just the thing for a medium-sized family and well suited for country, town or city. This house has been built very often and is extremely popular with the class of people who desire comfort, neatness of design and a generally well laid out house.

This house is susceptible to many changes as regards interior arrangement; frequently with little or no additional cost, and these we will be pleased to figure with customers any time as outlined in our free plan offer.

It is well to remember that the material we furnish for our designs is brand new stock, interior finish is clear, of the best grade. Full information with reference to this is given under the head of "Material Specifications," and anyone who contemplates building this house will do well to take advantage of our Free Plan offer as outlined therein, thus getting information of great value.

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalogue—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for . . . . . \$97.50

Paint for entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint.) . . . . . \$ 26.84  
Hot Air Furnace. . . . . \$107.10  
Steam Heating Plant. . . . . \$196.84  
Hot Water Heating Plant. . . . . \$222.63





## HOUSE DESIGN No. 131



SIZE, 28' x 28'  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$800.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

8 ROOMS AND BATH

IN the above we illustrate a strictly modern home of moderate size. It is 28 ft. wide x 28 ft. deep with a 7 foot wide porch, extending nearly across the entire front. The large Colonial windows give the house a strikingly distinctive effect often lacking in dwellings of double its cost. The interior has been arranged with a view to comfort and health of its occupants. The windows are many and large, and placed to insure ample light and perfect ventilation. The cellar stairs are directly under the main stairway and within easy access of the kitchen. The pantry communicates directly with both kitchen and dining room; a convenience that will save many steps during the preparation of meals. There is, besides, an extra closet opening from the kitchen that is universally appreciated.

The general comfort and roominess of the house is further enhanced by the large cased opening connecting the dining room, living room and hall. Nor has the artistic been neglected. The triple casement window on the stair landing is glazed with leaded crystal glass and provides not only ample light and ventilation but gives the stairway a pleasing artistic effect, and the leaded glass window in the "den" also adds much to the general attractiveness.

The second floor has four good size bedrooms, bath and four closets. All the rooms are well lighted and ventilated and open directly into the hall, insuring complete privacy to the occupant.

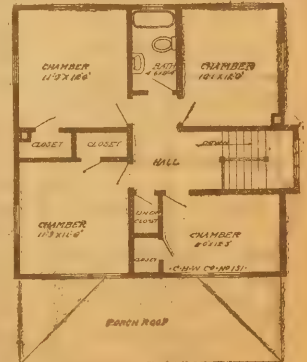
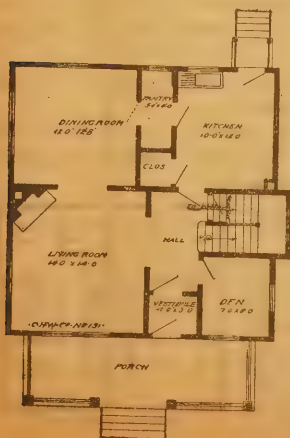
The entire material for this house is of exceptionally good quality and in keeping with the character of the design. It is our constant

aim to eliminate waste at every angle, and in drawing the plans and developing the designs we avoid impractical and expensive construction and in making up our bills of material, we utilize standard sizes and grades and so avoid unnecessary expense which always follows impractical and unusual construction. This design, especially, is susceptible to a full development along these lines. As a result we are enabled to offer the material necessary for its construction at a price impossible to others and so make it possible for people in moderate circumstances to secure a beautiful and commodious home at a very low price.

All of the material for these House Designs is strictly Brand New stock of standard manufacture and we guarantee the grades specified in our Bill of Material. With the aid of our complete Blue Print plans and Specifications and our itemized List of Material anyone at all familiar with building construction will have no difficulty in constructing this dwelling. We outline on the preceding page of this book our Free Plan Proposition which you are earnestly requested to read.

A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.

Paint for entire job including hard oil finish for the interior for two coat work (including porch floor paint, but no other floor or roof paint).....\$26.84  
Hot Air Furnace.....\$111.00  
Steam Heating Plant.....\$227.84  
Hot Water Heating Plant.....\$253.85





## TWO FAMILY HOUSE DESIGN No. 140



SIZE, 37' 6" x 43'  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$1190.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

7 ROOMS AND BATH IN  
EACH APARTMENT

IN the above we show a two family house, size being 37 ft. 6 in. wide by 43 ft. long, exclusive of the porch. Each side has seven rooms, bath and pantry. There is a large front porch that can be divided for each tenant if desired, for the entrance is made through separate vestibules, each connecting directly with the living room.

The house has an attractive open stairway in the living room which is connected with the dining room by a large opening. The dining room and kitchen are nicely arranged with a pantry between, also with another small room in the rear, which can be used for either bath, bedroom or storeroom. On the second floor we have three bedrooms and bath with closets for each.

In designing this house, it has been our aim to avoid as far as possible the appearance of a tenement house which is objected to by many people. In exterior appearance it gives the impression of a private residence and in that respect greatly enhances its renting value.

The low price at which we are selling the material required for the construction of this design makes it possible to build this house at a cost to insure a good dividend on the investment. It is modern in design and conveniently arranged and will make a profitable investment in almost any locality.

The material used in the construction of this design as in all of our houses is of first class stock, strictly in keeping with the general character of the design.

It is our constant aim in drawing our plans and developing them to avoid as far as possible expensive and impracticable construction and so reduce the cost of the building to a minimum by eliminating all waste. The character of the material used in the construction of this as in all other designs is correct and practical and will be found described in the preceding pages of this book, and we refer you to our Free Plan Proposition as outlined and solicit your inquiries.

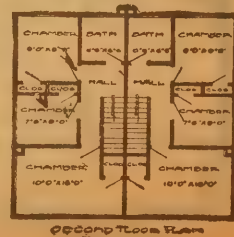
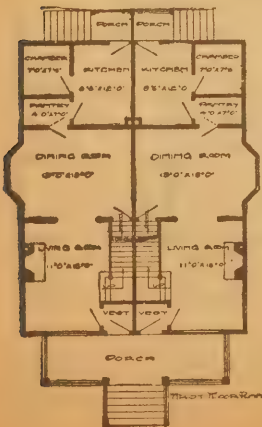
A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....\$165.00

Paint for entire job, including hard oil finish for interior for two coat work, (including porch floor paint, but no other floor or roof paint).....\$36.87

Hot Air Furnace.....\$167.90

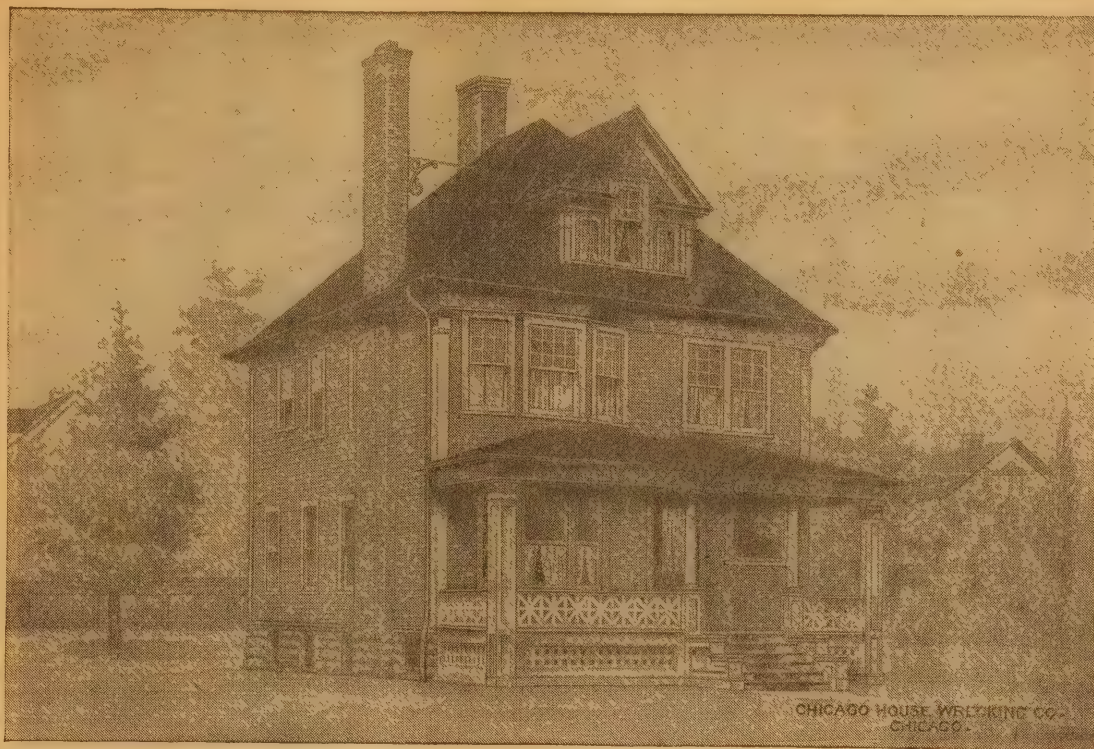
Steam Heating Plant.....\$314.35

Hot Water Heating Plant.....\$353.67





## TWO FAMILY HOUSE DESIGN No. 141

CHICAGO HOUSE WRECKING CO.  
CHICAGO.

SIZE, 30' x 42'  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$1,250.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

6 ROOMS AND BATH  
IN EACH APARTMENT

IN the above design we present a double flat building which has the appearance of a palatial private residence. Size 30 ft. wide by 42 ft. deep. There is absolutely nothing about this design that would stamp it as a flat or tenement house. The large front porch extending across the entire front of the house is roomy and comfortable, yet the single door entering into the house gives no indication that this is used for two family purposes.

The Colonial windows in the front of the house make an imposing and attractive appearance and the pilaster running up to the eaves on the front add to the general attractiveness of the design.

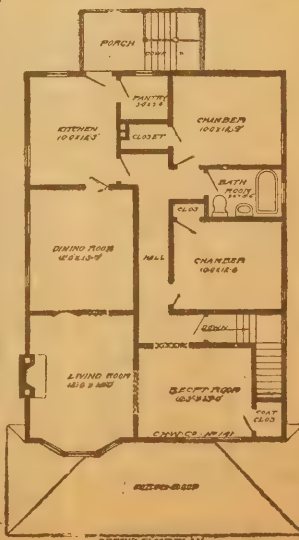
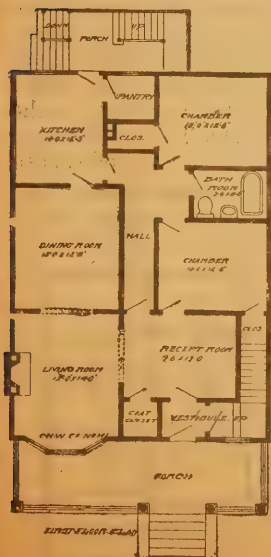
The interior arrangements are exceptionally convenient and modern. Each flat with its separate vestibule entrance is strictly private and has all the conveniences of a modern home on one floor. The living room, dining room and kitchen being on one side and the bedrooms and bath on the other, each side entirely independent of the other—this gives a privacy to the latter part of the house that is very desirable.

There is a large reception hall, living room and dining room, all being connected by cased openings which practically throws these rooms into one apartment. The chambers, bath room and kitchen are easy of access from the center hall, the pantry leading off the kitchen at the rear of the house. The back door opens on the rear porch which is covered by separate roof and gives to each tenement a private entrance to the back yard. The basement stairs being directly at the foot of the back porch makes it easy of access for both tenants.

The house is supplied with two chimneys, which simplifies the heating proposition.

**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....\$186.00

Paint for entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).\$32.57  
Hot Air Furnace.....\$164.55  
Steam Heating Plant.....\$244.34  
Hot Water Heating Plant.....\$268.00





## HOUSE DESIGN No. 139

CHICAGO HOUSE WRECKING CO.  
CHICAGO.

SIZE, 29' x 33' 6"  
EXCLUSIVE OF PORCHES

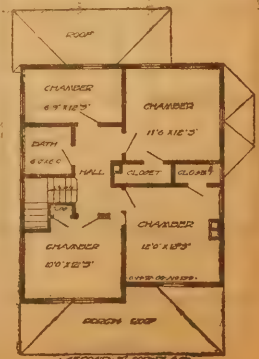
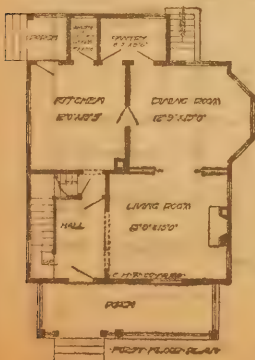
APPROXIMATE PRICE, \$798.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

8 ROOMS AND BATH

**T**HE design shown herewith is a modern house, of liberal dimensions and extremely handsome effect. In size it is 29 ft. wide by 33 ft. 6 in. deep, exclusive of porch, and it has every convenience and all the requirements of an up-to-date home. As already stated in our introduction, these houses are not picture houses but practical in every respect, and have been designed from suggestions, in many cases made by our customers or developed from many years of experience in actual construction. In presenting this design, we have sought to harmonize every feature. The front gable, the dormers, the wide porch, the bay windows, all lend to the general beauty of the house, while in the interior, it is as perfect as human ingenuity can make it. In the parlor we have a handsome fire-place flanked on either side by leaded glazed windows. The beautiful bay window in the dining room gives not only ample light and perfect ventilation but an extremely pleasing effect which is further enhanced by the leaded glass window in the rear of the room. The kitchen is large and well lighted and entry to the commodious pantry is effected through either the dining room or kitchen. We have besides a small room entering into the kitchen intended for a wash room or lavatory. On the second floor we have four good sized bedrooms, bath room and plenty of closets. Altogether, this house offers anyone wishing a modern, up-to-date roomy home, every advantage and convenience of a house of much higher cost.

The materials we furnish for this design are all extra good qualities and are described generally in this book under the head of "Material Specifications." We also ask you to read our Free Plan Proposition by which you can get full and complete information regarding any of our designs.

**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this Catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for... \$92.50  
**Paint** for entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint) \$27.54  
**Hot Air Furnace** ..... \$127.50  
**Steam Heating Plant** ..... \$202.35  
**Hot Water Heating Plant** ..... \$245.77





## HOUSE DESIGN No. 133



SIZE, 24'x29'6"  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$710.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

7 ROOMS AND BATH

**I**N our Design No. 133, 24 ft. by 29 ft. 6 in. in size, we present a combination of country and city home. The distinguishing feature of this design is the large veranda extending across the front and along the side of the house. This feature appeals strongly to those who are fond of out-door life. In interior arrangements, this design has all the comforts of a modern home. Our chief aim has been to utilize every inch of available space to the best possible advantage, without unduly increasing the cost, and we believe we have succeeded. Though the house is of moderate size, the rooms are all comfortably large. There is no waste of room where not needed.

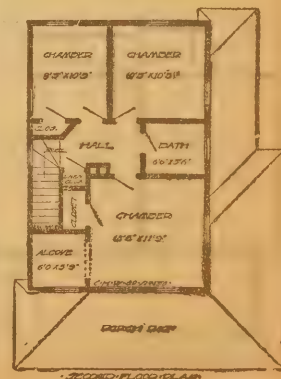
The main stairway is modern in design and construction and adds much to the general attractiveness of the interior. The large cased openings connecting the hall, living room and dining room, lend additional roominess to the already comfortable dimensions. The pantry is so placed as to be easy of access from both the kitchen and dining room. There are three chambers on the second floor, each provided with a closet, and opening directly into the center hall, with a linen closet also opening from the latter. The hall is lighted by a large window on the stairs and may be readily ventilated. There are no dark corners anywhere. The windows are large and placed to insure perfect light and ventilation and yet leave plenty of space for furniture.

Although our "Material Specifications" outline fully the general class of material that we furnish on all of our designs, the material list covering the above design will show exceptionally good qualities, in every way suitable and desirable for a first class job and will be an agreeable surprise for intending purchasers.

Our Free Plan Offer in the preceding pages describes fully how you can secure a set of plans, specifications and list of material Free of Charge. It will be well to read this interesting offer carefully.

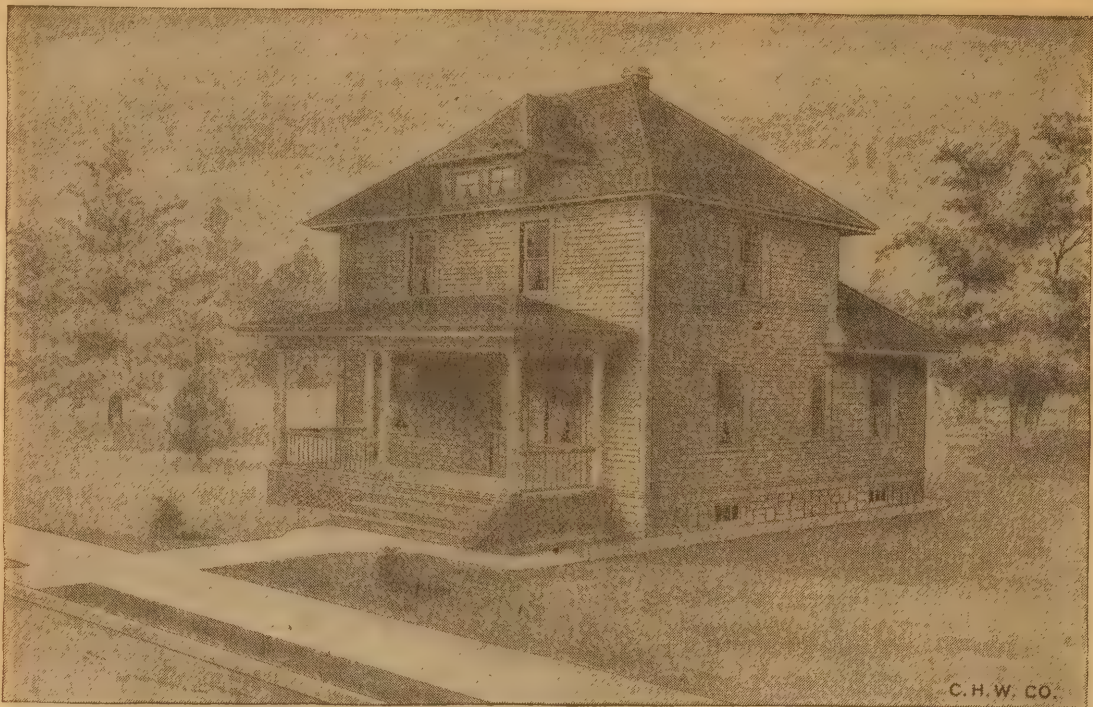
**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....\$97.50

Paint for entire job including hard oil finish for interior for two coat work, (including porch floor paint, but no other floor or roof paint).....\$ 27.89  
Hot Air Furnace.....\$107.10  
Steam Heating Plant.....\$179.01  
Hot Water Heating Plant.....\$204.42





## HOUSE DESIGN No. 129



SIZE, 29' 6" x 34' 6"  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$678.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

6 ROOMS AND BATH

**T**HIS house is 29 ft. 6 in. wide by 34 ft. 6 in. deep, exclusive of porches. There are four exceptionally large rooms, besides pantry and closet on the first floor, and two chambers and bath on the second floor. The back portion of the house is but one story high, thus saving considerable in the cost of the construction. This house has been designed for people who prefer a limited number of large rooms to a greater number of smaller rooms and its compact arrangement makes it especially economical in cost of construction. This is an exceptionally good farm or country house, where large rooms without waste space are desired.

The interior arrangement may be altered to suit individual requirements without increasing the cost. In place of the parlor on the ground floor a reception hall may be provided with an open stairway leading from first to second floors. In that event an extra room could be provided on the second floor. We shall be pleased to make any changes suggested.

The materials we furnish for the construction of this as for all of our designs is strictly **Brand New** stock as described on preceding pages. The selection has been made to meet the requirements of this particular design and every possible waste has been eliminated to keep the cost down at the lowest possible point. We believe that for the amount of space provided, this house may be built cheaper than many other designs. We furnish Blue Print Plans and Specifications free as outlined in our **Free Plan Proposition** and invite your attention to same.

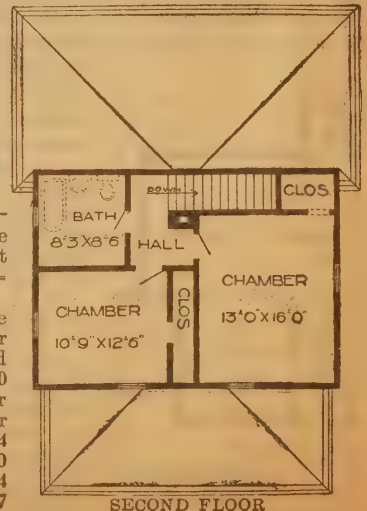
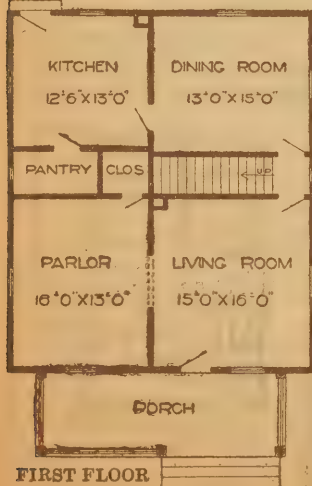
A Complete Plumbing Outfit—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....\$98.00

Paint for entire job, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....\$25.44

Hot Air Furnace.....\$91.80

Steam Heating Plant.....\$169.84

Hot Water Heating Plant.....\$190.37





## HOUSE DESIGN No. 134



SIZE, 30' x 30'  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$810.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

8 ROOMS AND BATH

IN the above we present a design that in roominess, comfort and convenience will meet the requirements of the most exacting. In size it is 30 ft. wide by 30 ft. long, exclusive of the porch. The swell front or bay windows, the handsome dormer and the massive colonial porch give the exterior an exceedingly pleasing and substantial effect. The interior arrangements have been developed to meet the requirements of a modern home. The pantry is placed between the kitchen and dining room, thus saving many unnecessary steps. The stairway to the basement is directly under the front stairway, and entry to the kitchen may be made through the front hall without passing through the other rooms. The chimney is so placed as to make heating the house the most economical possible, either by stoves, hot water, furnace or steam heat. The large cased openings between the dining room, living room and hall lend additional roominess to the interior and set off admirably the handsome stairway leading to the second floor. We call special attention to the fact that ascent to the second floor can be made from either front hall or the kitchen in the rear, which is an added convenience generally appreciated.

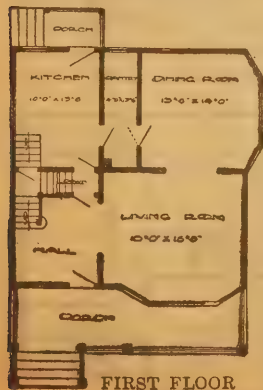
The landing of the stairway on the second floor is directly in the center of the house with direct entrance to each of the four bedrooms and bath, ensuring complete privacy to its occupants.

It is one of our leading and most popular designs and we are supplying the material necessary for its construction in extra good quality therein.

In this book you will find further information regarding the quality of material, under the head of "Material Specifications," and our Free Plan Proposition is also fully described. If you are interested in this or any of our designs and are looking for a real bargain write us fully.

**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for ... \$92.50

Paint for entire job including hard oil finish, for interior for two coat work (including porch floor paint, but no other floor or roof paint)..... \$30.00  
Hot Air Furnace..... \$127.50  
Steam Heating Plant..... \$209.67  
Hot Water Heating Plant..... \$257.90



FIRST FLOOR



SECOND FLOOR



## HOUSE DESIGN No. 136



SIZE, 25'6" x 28'6"  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$695.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

7 ROOMS AND BATH

**B**Y way of variety and to meet the demands of varying tastes, we present herewith our design No. 136 the size of which is 25 ft. 6 in. wide by 28 ft. 6 in. deep that may at first sight seem out of the ordinary with the wide gables at the front, but the massive porch extending across the front of the house offsets any peculiarities that may exist in the construction of the roof. We have had so many calls for houses with bath rooms on first floor that we have developed this design to meet this special need. We have, on the first floor, living room, dining room, kitchen, pantry and bath. Entrance to the pantry may be had through the kitchen and dining room as well, making it especially convenient. The fire place in the large living room adds cheerfulness to the interior and makes heating of the house economical. The stair hall may be closed off from the other rooms if desired, preventing waste of heat if it is desired to heat the house with stoves.

Landing on the second floor is in a front hall which leads directly to the four bedrooms. One of the rear bedrooms may be converted into a bathroom at a very slight additional cost, since one set of "roughing in" plumbing material may be utilized for both bathrooms. Everything we furnish for this house, as in all of our other designs, is strictly Brand New stock and we ask that you carefully read over our Free Plan Proposition and a description of the material that we supply for the construction of these designs as detailed in the preceding pages of this catalog.

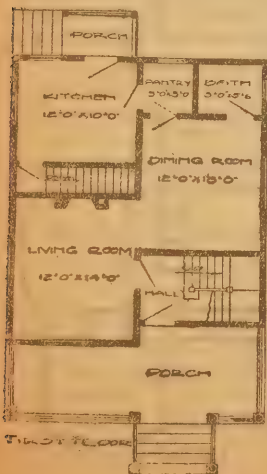
**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....\$97.50

**Paint for entire job** including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....\$27.09

**Hot Air Furnace**.....\$113.30

**Steam Heating Plant**.....\$166.18

**Hot Water Heating Plant**.....\$184.30





## HOUSE DESIGN No. 138



SIZE, 29'6" x 32'  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$810.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

8 ROOMS AND BATH

**T**HIS house is 29 ft. 6 in. by 32 ft. It has been designed to meet the special requirements of those who from choice or the necessities of their situation want all the conveniences on the main floor of the house, yet prefer a two-story house to the one-story cottage. The house has many attractive and artistic features, though it is not always possible for the designer to bring out the salient lines under the restrictions imposed by the space available for its reproduction in a catalog of this size. The harmonious effects would be better appreciated from an inspection of the scale drawings. To that special class who demand the conveniences as here arranged, this house offers many advantages.

We have on the ground floor, three good sized living rooms, bedroom and bath room. The stairway leading from the living room is of the open order and access to the basement may be had directly underneath it, thus economizing the available space. On the second floor are four good sized bedrooms, each provided with a closet. The house is well lighted and perfectly ventilated and is in every respect a comfortable and convenient home. The interior arrangements may be altered to meet special requirements.

The porch is exceptionally large and desirable, extending on the left side beyond the front of the house proper and giving it an imposing, artistic, as well as unusually massive appearance.

Kindly read our Free Plan Proposition as outlined, and for a description of our materials, you are earnestly requested to carefully read our Material Specifications section in preceding pages. "You will profit by so doing."

**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for ..... \$92.50

Paint for entire job including hard oil finish for interior for two coat work, (including porch floor paint, but no other floor or roof paint)..... \$27.09

Hot Air Furnace..... \$124.25

Steam Heating Plant..... \$206.00

Hot Water Heating Plant..... \$243.74





## HOUSE DESIGN No. 147



SIZE, 20' x 28'  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$570.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

6 ROOMS AND BATH

**T**HE above design is 20 ft. wide by 28 ft. deep exclusive of the porch and has been developed along the lines of a modern home and provided with every essential convenience possible in the limited space available.

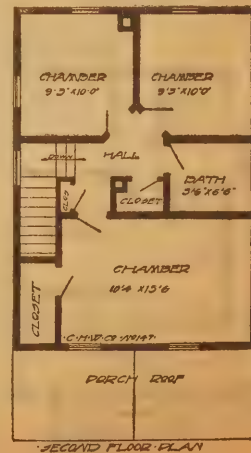
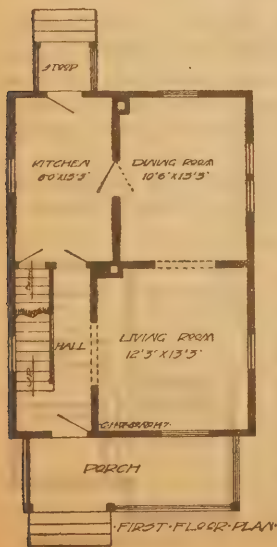
The front elevation shows a colonial pattern, the square paneled porch columns giving it an especially striking and handsome effect, which appeals strongly to people of good taste. There are three good sized rooms on the first floor, in addition to the front hall, and so arranged as to make communication between them especially easy. On the second floor, we have three bed rooms and bath, besides the usual closets. Also the large front room can be divided so as to have a child's room or sewing room by merely moving one partition and adding one door, the extra cost of which would not amount to over three or four dollars.

With a chimney placed in the center of the house, the whole house may be easily heated in the most economical manner either by stove or heater in the basement.

This design presents many features that appeal to people of moderate means as it offers many conveniences at a very low cost. The price at which we are selling the material for this design is exceptionally low and will enable anyone to secure a comfortable and modern home for very little money. The material we furnish is all strictly BRAND NEW with the quality in keeping with the general character of the design, and we ask you to kindly read our Material Specifications, also our Free Plan Proposition as outlined in preceding pages.

**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for...\$98.00

**Paint** for the entire job including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint)...\$24.42  
**Hot Air Furnace**.....\$93.05  
**Steam Heating Plant**.....\$164.34  
**Hot Water Heating Plant**.....\$184.30





## HOUSE DESIGN No. 117



SIZE, 39' 6" x 27'  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$550.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

6 ROOMS AND BATH

**W**E present herewith a bungalow intended for a wide city or suburban lot. In size it is 39 ft. 6 in. by 27 ft. deep. It has a living room, dining room, kitchen, pantry, three bed rooms and a bath room and is in every way a complete and modern home on one floor. The fire-place in the corner of the living room adds cheerfulness to the surroundings. All the rooms are of easy access from the living room of the house. There are no waste spaces where not needed and the whole plan has been developed not only for convenience and beauty but in harmony with the general character of the bungalow pattern. For a summer or suburban home, this class of house offers many advantages not possible in designs of different construction, and we especially recommend this design to people of good taste and moderate means as an ideal home at a comparatively small cost.

The Bungalow pattern of construction was at first employed only in houses intended for temporary use, but their beautiful outlines and great convenience soon brought them into rapid favor as suburban and city homes. In this design we show one of the most pleasing examples of this deservedly popular style.

The material we furnish is all **Brand New** stock as described in our **Material Specifications** and we also furnish **Free Plans**, specifications and list of material for each of our designs as outlined in preceding pages.

**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for... **\$97.50**  
**Paint** for entire job, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint)..... **\$19.70**  
**Hot Air Furnace**..... **\$83.05**  
**Steam Heating Plant**..... **\$147.84**  
**Hot Water Heating Plant**..... **\$176.21**





## HOUSE DESIGN No. 119



SIZE, 31' 6" x 38'  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$645.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

6 ROOMS AND BATH

**D**ESIGN No 119 is a further development of the bungalow pattern of house construction; with its six rooms, pantry and bath, it has all the conveniences on one floor. In size it is 31 ft. 6 in. wide by 38 ft. long, exclusive of the porch with a hip roof and wide eaves extending over the porch. It carries out the extreme simplicity characteristic of this style and is exceptionally pleasing to the eye in external effect. Entrance is made directly into the living room from which all the other rooms are easy of access. The house has an abundance of closets and every convenience required. The windows are large and numerous and placed to insure ample light and perfect ventilation. The interior can be changed to suit individual tastes if desired, as there is ample floor space to work on.

This design appeals strongly to people who prefer the bungalow style of construction, as by reason of its compactness of arrangement, it may be constructed at a minimum cost and still provide all the essential conveniences of a modern city home.

The material we supply is all strictly Brand New stock of a quality in keeping with the general design. For further information as to the quality of the stock we furnish, we refer you to our **Material Specifications** section where our material is described in detail. We also supply **Free Plans**, specifications and list of material showing the purpose for which every item is intended. A careful perusal of these sections will be of inestimable value to you.

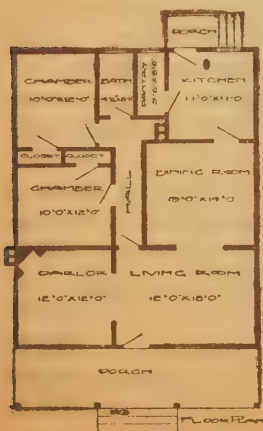
**A Complete Plumbing Outfit**—Our No. 5-A-585 listed in the Plumbing section of this catalog—with all material necessary for "roughing in" work so as to complete the entire job to the ground line—all material "A" grade and guaranteed for.....\$92.50

**Paint** for entire job, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....\$18.95

**Hot Air Furnace**.....\$ 86.95

**Steam Heating Plant**.....\$173.51

**Hot Water Heating Plant**.....\$192.39





## HOUSE DESIGN No. 122



SIZE, 24' x 24'  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE, \$430.00

(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

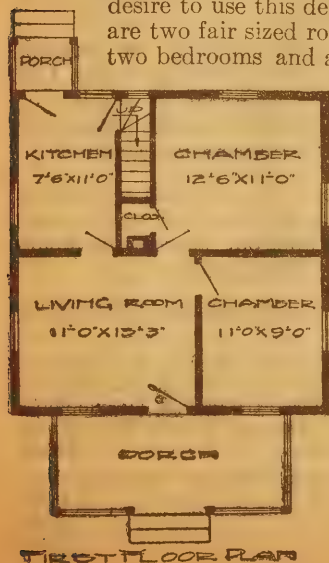
6 ROOMS

**T**HIS neat and comfortable cottage has a capacity of six rooms within space of 24 ft. by 24 ft. and is very little higher than an ordinary one-story house. We are furnishing material to build this house as a winter house, including sub-flooring and boxing, because it is a house that will meet the requirements of very many people. The window and door openings are trimmed with our plain mitered casing for paint work. For any who desire to use this design as a summer house we can omit the sub-flooring and boxing. On the second floor are two fair sized rooms with ample space for closets or store rooms. The first floor has large living room, two bedrooms and a good-sized kitchen. While the house is planned to heat with stoves with the use of

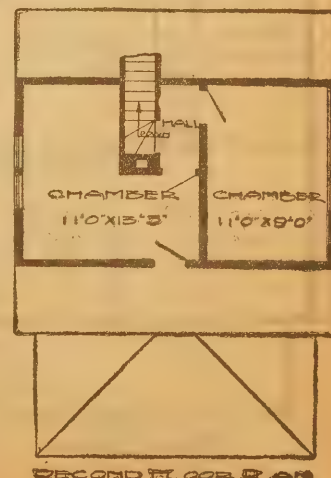
one chimney, this can be changed very readily and a fire-place put in between the two doors. We furnish nothing but new material in this or any of our house designs, all of which is fully described in our List of Material, which also gives our catalogue numbers on doors and windows, finishing material, hardware, etc. By the use of our Free Blue Print Plans and Material Bill, anyone who is in any way familiar with building can complete one of our designs.

Plumbing Equipment for this house includes: One Flat Rim Sink; one 30-gallon galvanized iron range boiler. All necessary galvanized iron supply pipe fittings, lead trap for sink and faucets. Everything to make the outfit complete above the ground line, supplying hot and cold water to kitchen sink and including soil pipe. Does not include water front for stove. Price. . . . . \$18.00

Paint for entire job, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint) . . . . . \$ 17.93  
Hot Air Furnace . . . . . 78.75  
Steam Heating Plant . . . . . 128.84  
Hot Water Heating Plant . . . . . 152.00



FIRST FLOOR PLAN



SECOND FLOOR PLAN



HOUSE DESIGN No. 102B

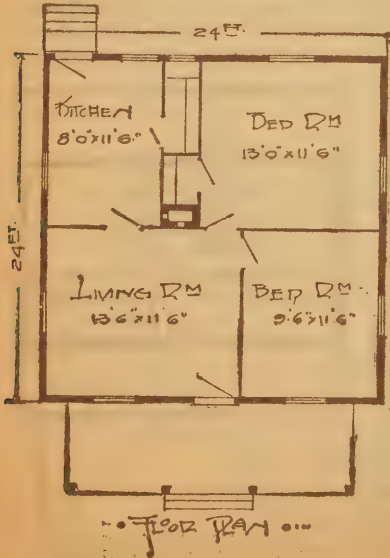


SIZE, 24' x 24'  
EXCLUSIVE OF PORCHES

APPROXIMATE PRICE \$290.00  
(SUBJECT TO MARKET CHANGES)  
Write for Actual Delivered Prices

4 ROOMS

IN the above we illustrate a neat four-room cottage, size 24 ft. by 24 ft., primarily designed for summer or seashore use, but it may be easily arranged for permanent occupancy by a slight change in the construction. Drop siding without sheeting is used for siding purposes, and the roof, our famous 3-ply Rubber-Galvo patent roofing, over dressed and matched roof sheeting laid solid. Of course, it is impossible in a house of this size to include all the modern conveniences so generally demanded in building construction at the present time. The design may be increased in size to suit individual necessities and the above is merely a suggestion of what may be done along this line.



In adapting this house for permanent use, the material we furnish is slightly different from that supplied if intended for a summer home, but the quality and character of the material are fully described in our bill of material that we furnish for each of our designs, and to anyone interested in this cottage, we shall be pleased to supply all the information required.

Do not forget that we bestow the same care in the selection of suitable material in the small as we do in the large houses. Harmony of design and economy of construction are never lost sight of, and our patrons have the assurance that everything has been worked out to the last detail.

Write us for prices on this design, built with siding sheathing, sub-flooring and shingles instead of as above.

Plumbing Equipment for this house includes: One Flat Rim Sink. One 30-gallon galvanized Range Boiler. All necessary galvanized iron supply pipe, fittings, lead trap for sink and faucets. Everything to make the outfit complete above the ground line supplying hot and cold water to kitchen sink and including soil pipe. Does not include Water Front for stove. Price.....\$18.00

Paint for entire job, including hard oil finish for interior for two coat work (including porch floor paint, but no other floor or roof paint).....\$ 16.99  
Hot Air Furnace.....59.80  
Steam Heating Plant.....102.68  
Hot Water Heating Plant.....118.23



# STRUCTURAL IRON WORK

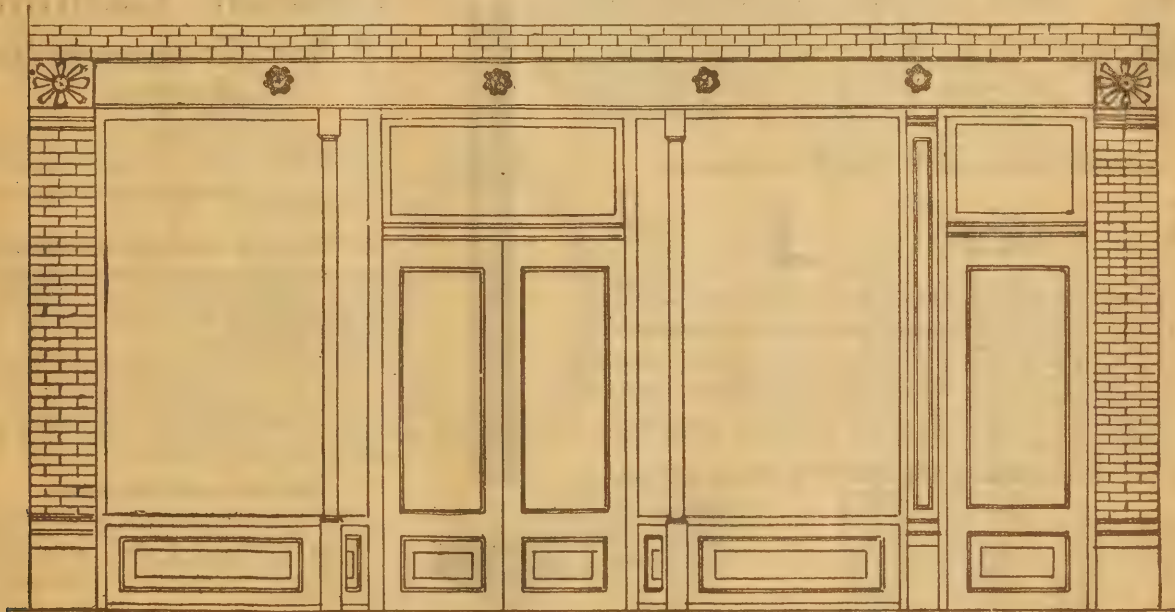
We have on hand at all times an immense stock of both brand new and second-hand structural steel of all kinds, including I Beams, Channels, Angles, T's and Columns, and have a first-class structural iron shop under the supervision of expert structural iron workers. We can save you money on anything that you may require in this line. We fabricate work so that same can be assembled on the job. Send us your plans and we will promptly make an estimate on your requirements, advising you as to the exact cost. You will find our prices to be big money savers.

## SECOND-HAND STRUCTURAL IRON

Some prejudice may exist in your mind as to second-hand structural iron, you thinking it may be weakened by previous use. This is not the case. Stop and consider that we secure this material from World's Fairs, large public and other buildings that we dismantle. Much of this material has been in use comparatively a short time and was well painted and otherwise protected from rust and corrosion. We use only such material as is in good sound condition, and that is not in any way weakened by its former use.

## STORE FRONTS

Owing to the many designs and varying weights and heights of buildings it is impossible to make prices on the necessary material without a plan. A rough sketch will do just as well as an architect's finished drawing. We show herewith illustration of a very popular store front such as is used on a 25 ft. lot.



It does not make any difference to us in figuring on requirements whether your building covers 25 ft. or a whole block. All that is necessary is that we have a drawing showing the construction, and other information that will enable us to figure on material of proper strength to stand required strain.

## INFORMATION THAT WE MUST HAVE

**First.** Sketch or plan showing the work.

**Second.** If material for store front is required, give full width of building and state if any columns are to be used for the outside walls. If so, show on your sketch just what distances between walls the columns are to be placed.

**Third.** Be sure and state the height and thickness of wall above the girders, so that we can determine the weights to be carried by the iron work.

**Fourth.** If the iron work is intended to carry the floors, state for what purpose the building is to be used, and mention the heaviest loads that will be carried on these floors.

**Fifth.** Always give us full information if you possibly can and submit sketches where it is possible for you to send them. Bear in mind a rough sketch is better than none and, furnished with all information that you can possibly give us, will help us to understand your requirements more readily and place us in a position to be of service to you.



# STRUCTURAL IRON

## Illustrations Showing Girders Most Commonly Used

A  
Style AB  
Style B

No. 18-A-3. **Style A Girder** is composed of 2 I Beams of uniform size, provided with Bolts and Separators which separate and tie the beams according to the width of the wall.

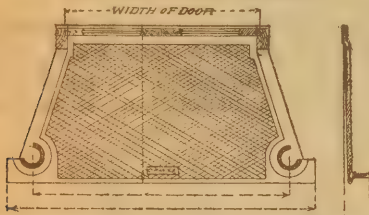
No. 18-A-4. **Style B Girder** is composed of 1 I Beam and 1 Channel of uniform size, provided with Bolts and Separators.

No. 18-A-5. **Style C Girder** is composed of 1 I Beam and 1 Channel of uniform size, and angle bolted on the lower outside edge of channel, projecting to carry brick wall, thus concealing the iron work.

No. 18-A-6. **Style D Girder** or Lintel is composed of 1 Channel with an angle bolted to the lower outside of channel to carry brick work. This style girder is commonly used over doors and windows.

C  
Style CD  
Style D

### CAST IRON SILL PLATES.



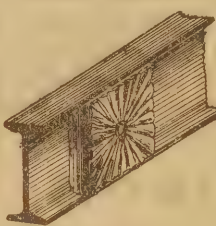
No. 18-A-7. Cast Iron Door Sill Plates are made to order only. Complete measurements must be furnished, as drawn by dotted lines in illustration. These we guarantee to make in accordance with measurements furnished. Send sketch and measurements for prices.



### ROSETTES.

No. 18-A-8. Used in connection with girder on outside of separator bolt end for ornamental purposes.

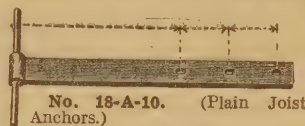
### BEAM BLOCKS.



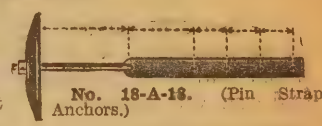
No. 18-A-9.

Used on I-Beam Girder to conceal the end of girder. Also used to conceal joints of girders that are made up in two or more sections, giving a more finished appearance. Always state height and weight of beams in connection with which the beam block is to be used.

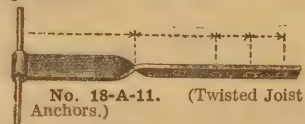
### JOIST ANCHORS.



No. 18-A-10. (Plain Joist Anchors.)



No. 18-A-13. (Pin Strap Anchors.)



No. 18-A-11. (Twisted Joist Anchors.)

For Prices on "Joist Anchors," write us quantity, style and lengths, when we will quote attractive prices.

No. 18-A-21.

## Tubular Columns

### "A New Feature in Steel Columns."

To meet the growing demand for a low priced Steel Tubular Column, we are now prepared to furnish a column of this kind, which will meet with the most varied requirements.

We furnish these columns made of Standard Pipe, also of Light Tubing.

### HOW TO GAIN ADDITIONAL STRENGTH.

The columns made of light tubing are generally used, where it is intended to fill them with concrete. Any column can be filled with concrete at a very small expense and when so filled they are stronger than any cast iron column of the same size.

The standard pipe columns can be treated in a like manner, although where it is intended that they be filled with concrete, we recommend using the light tubular columns, which are less expensive and will answer just as well as the pipe columns under these conditions.

The light tubular columns are very desirable where a light load is to be carried and in such an event it is not necessary to fill them with concrete.

### SPECIAL CAPS AND BASES.

In connection with these columns we can furnish special recessed cast iron caps and bases. These caps and bases are made of 3/4 inch and 1 inch thick cast iron plates, on which there is ring cast, forming a recess, into which the ends of the column rest, forming a very satisfactory and substantial bearing.

**Cap and Base.** NOTE. Contractors and architects should keep in mind these columns as it means a big saving in both first cost and freight.

Price quoted on Columns does not include Caps and Bases.

### No. 18-A-21. STANDARD PIPE COLUMNS.

Inside Diam.	Outside Diam.	Weight per ft.	Price per ft.
3 in.	3 1/2 in.	7 1/2 lbs.	\$0.17
3 1/2 in.	4 in.	9 lbs.	.19
4 in.	4 1/2 in.	10 1/2 lbs.	.21
5 in.	5 1/2 in.	14 1/2 lbs.	.30
6 in.	6 1/2 in.	18 1/2 lbs.	.40
8 in.	8 1/2 in.	28 lbs.	.65

### No. 18-A-21B. LIGHT TUBULAR COLUMNS.

Inside Diam.	Outside Diam.	Weight per ft.	Price per ft.
2 1/2 in.	3 in.	3 1/2 lbs.	\$0.08
3 1/2 in.	3 1/2 in.	3 1/2 lbs.	.10
3 1/2 in.	4 in.	5 1/2 lbs.	.12
5 1/2 in.	6 in.	10 lbs.	.25

### SPECIAL RECESSED CAPS AND BASES FOR TUBULAR COLUMNS.

DESCRIPTION.	Size of Plates	Price Per Set.
For 3 in. Standard Pipe and for 3 1/2 in. O. D. Casing..	7x7x1/2	\$0.85
For 3 1/2 in. Standard Pipe and for 4 in. O. D. Casing..	7x7x1/2	.85
For 4 in. Standard Pipe and for 4 1/2 in. O. D. Casing..	8x8x1/2	1.00
For 6 in. Standard Pipe and for 6 in. O. D. Casing..	10x12x1/2	2.25
For 8 in. Standard Pipe.....	12x12x1/2	2.50

A set consists of two recessed plates as described.

### ILLUSTRATIONS SHOWING STRUCTURAL SHAPES.



Style E

Style F

Style G

Style H

No. 18-A-13. **Style E** shows I Beams which are made in standard sizes ranging from 3 to 24 inches high.

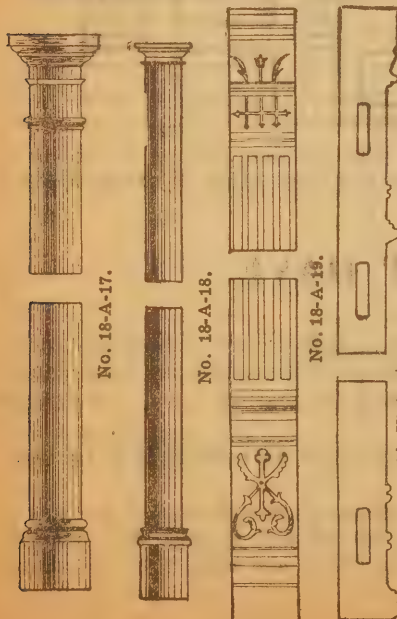
No. 18-A-14. **Style F** shows Channels which are made in standard sizes ranging from 3 to 15 inches high.

No. 18-A-15. **Style G** shows Angle Iron made with equal and unequal legs, sizes ranging from 1/2 inches x 1/2 inches to 8 inch x 8 inch.

No. 18-A-16. **Style H** shows T Iron made with equal and unequal legs, sizes ranging from 1 inch x 1 inch to 4 inch x 4 inch.

We can furnish I Beams, Channels, Angles and T's cut to any length, either plain, punched, mitered or worked up in any manner possible. Send us your specifications.

### ILLUSTRATIONS SHOWING COLUMNS OF POPULAR STYLES.



No. 18-A-17.

No. 18-A-18.

No. 18-A-19.

Side View of No. 18-A-19.

No. 18-A-20.

We can furnish Columns, both new and second-hand, in any size or length that may be required. The illustration shows new columns, but we at all times have a large number of second-hand columns of slightly different styles. Send us your specifications and we will quote you some very interesting prices.



# Miscellaneous Structural Iron

## TRUSS RODS.



No. 18-A-23. Style I. Lateral rods with welded eyes and turn buckles in center



No. 18-A-24. Style J. Truss rods threaded on both ends, fitted with nuts, and with turn buckles in the center.



No. 18-A-25. Style K. Plain Rods threaded on both ends and fitted with nuts.

We can supply lateral, truss and plain rods made up in any length or from any size rods desired. Send us your specifications, giving length and diameter and we will gladly submit prices.

No. 18-A-26. Style L. Anchor Bolts used for foundations, etc., made up in any length and of any size iron. Prices on application. Be sure and state length and diameter of bolt.

## CAST IRON WASHERS.

Used on ends of truss and plain rods. Furnished only in standard sizes.

### STAR WASHERS.

No. 18-A-27.

Diameter of Bolt, Inches.	Diam. Inches.	Thickness, Inches.
1 1/2	6	1
1 1/2	9	1 1/2
2	10	1 1/2



### STANDARD CAST WASHERS.

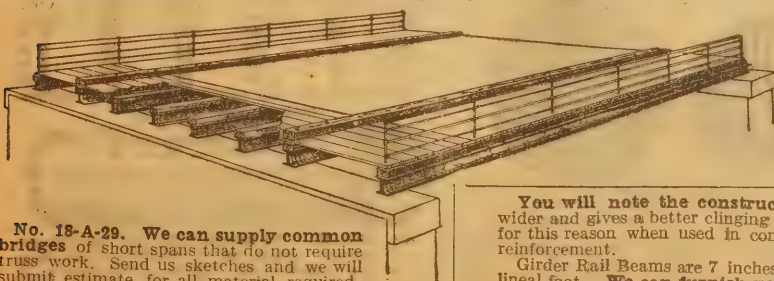
No. 18-A-28.

Diameter of Bolt.	Outside Diam.	Thickness Inches.	Wgt. in lbs.
1 1/2	2 3/4	1 1/2	1 1/2
1 1/2	3 1/4	1 1/2	1 1/2
1 1/2	3 3/4	1 1/2	1 1/2
1 1/2	4 1/4	1 1/2	1 1/2
1 1/2	4 3/4	1 1/2	1 1/2
1 1/2	5 1/4	1 1/2	1 1/2
1 1/2	5 3/4	1 1/2	1 1/2
1 1/2	6 1/4	1 1/2	1 1/2
1 1/2	6 3/4	1 1/2	1 1/2
1 1/2	7 1/4	1 1/2	1 1/2
1 1/2	7 3/4	1 1/2	1 1/2



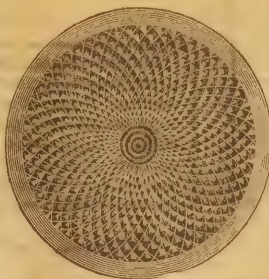
## BRIDGE WORK.

Here is a Money Saving Proposition. Township and County Officials, also Road Commissioners, should pay especial attention to it. (Read below.)



No. 18-A-29. We can supply common bridges of short spans that do not require truss work. Send us sketches and we will submit estimate for all material required, cut to proper lengths, fitted and punched, all ready to be put together, including necessary Bolts, Plates, etc. Be sure and state the heaviest load your bridge will have to carry.

## SIDE-WALK COAL HOLE COVERS AND RINGS.



No. 18-A-30.

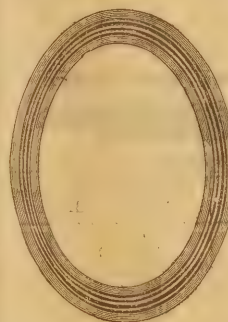
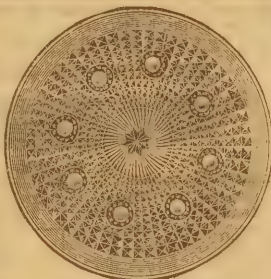
Style M. Plain Cover; diameter 18 inches; weight 24 pounds.

Price each.....\$1.00

No. 18-A-31.

Style N. Bull's Eye Glazed cover; 8 lights; diameter 18 inches; weight 25 pounds.

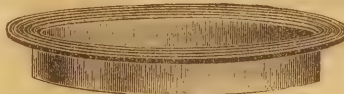
Price each.....\$1.50



No. 18-A-32.

Style O. Ring for wood or stone sidewalk; outside diameter 22 inches; for 18 inch cover; weight 13 pounds.

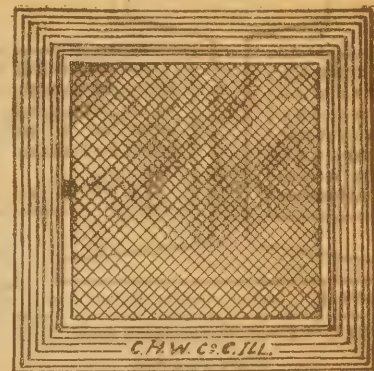
Price each....\$0.65



No. 18-A-33. Style P. Ring for cement sidewalk; outside diameter 22 inches; for 18 inch cover; weight 34 pounds.

Price each.....\$1.50

## PLAIN CAST IRON SIDE-WALK COVERS.

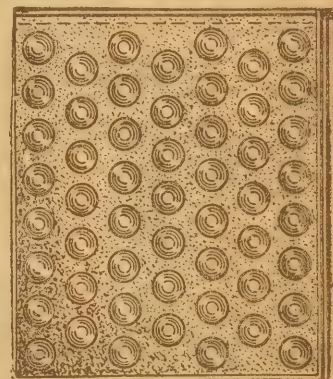


No. 18-A-34. Style Q. Plain Sidewalk covers and frames for cement sidewalk. Frame measures 25 inches square; cover measures 20 inches square; depth of flange 4 inches; weight of frame and cover combined 135 pounds.

We have approximately 200 of this lot which are second-hand, but in strictly first-class condition.

Price.....\$2.75

## SIDE WALK LIGHTS.



No. 18-A-35. Style R. For use over basements, slides, sidewalks, elevators, etc. Send sketch showing opening or area wanted cover.

## GIRDER RAIL BEAMS.

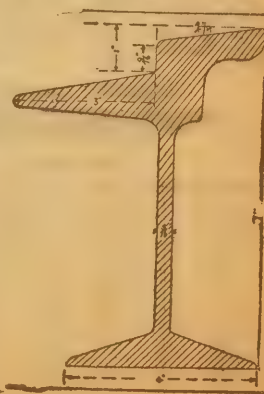
These Rails can be used to decided advantage in construction of bridges, sidewalks or for reinforcements of concrete work of any kind. In fact, they can be used as a substitute on almost any work on which Standard I Beams are used.

You will note the construction of the upper flange is wider and gives a better clinging surface than an I Beam and for this reason when used in concrete makes a much better reinforcement.

Girder Rail Beams are 7 inches high and weigh 25 lbs. per lineal foot. We can furnish you these Girder Rail Beams in any length you desire up to 30 feet long.

As far as strength is concerned, the Girder Rail Beams will compare favorably with a 9 inch Standard I Beam.

Write quantity and lengths wanted for our Special Money Saving Prices.





# CHICAGO HOUSE WRECKING CO., 35th & IRON STREETS, CHICAGO. NEW AND RE-LAYING RAILS

No order too large and none too small for our prompt and most careful attention

Our Structural Steel Plant is equipped with the modern tools, which, with our large stock, enables us to quote attractive prices and make quick deliveries.

WRITE US YOUR WANTS.

We are constantly buying Entire Manufacturing Plants, Mills, Gas and Water Works, etc., from which we get high grade Power Equipment, Machinery and Supplies which we can furnish you at "Wrecking Prices."

WE FURNISH COMPLETE INDUSTRIAL RAILWAY SYSTEMS. SEND SPECIFICATIONS FOR PRICES.

No. 18-A-36. Section showing 12 pound rail. No. 18-A-37. Section showing 16 pound rail. No. 18-A-38. Section showing 20 pound rail. We can quote low prices on new and re-laying rails for prompt delivery in 8, 12, 16, 20, 25, 30, 35, 40, 50, 60 and 70 lb. sections. Write us regarding your requirements, stating size and quantity, and we will be pleased to quote you according to stock on hand.

## FISH PLATES



No. 18-A-39. We can furnish fish plates for rails in sizes required. Splices are always furnished complete with bolts

## RAIL ROAD SPIKES.



No. 18-A-40. Always on hand in standard sizes; full kegs containing 200 lbs. We will furnish quantity according to requirements.

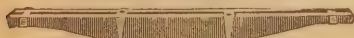
Size measured over head.	Average No. per Keg of 200lbs.	Ties 2 feet between centres, 4 spikes per tie, makes per mile.	Rails Used. Weight per yard.
5 1/2 x 7/8	375	5870 lbs.—29 1/2 kegs.	45 and over
5 x 7/8	400	5170 " 26 "	40 to 56
5 x 7/8	450	4660 " 23 1/2 "	35 to 40
4 1/2 x 7/8	530	3960 " 20 "	28 to 35
4 x 7/8	600	3520 " 17 1/2 "	24 to 35
4 1/2 x 7/8	680	3110 " 15 1/2 "	20 to 30
4 x 7/8	720	2910 " 14 1/2 "	20 to 30
3 1/2 x 7/8	900	2350 " 11 "	16 to 25
4 x 7/8	1000	2090 " 10 1/2 "	16 to 25
3 1/2 x 7/8	1190	1780 " 9 "	16 to 20
3 x 7/8	1240	1710 " 8 1/2 "	12 to 16
2 1/2 x 7/8	1342	1575 " 7 1/2 "	12 to 16
2 x 7/8	2200	1000 " 5 "	8 to 10

Write us for Prices on whatever you need in Railroad Supplies.

## GRATE BARS.

We can furnish new and second-hand Grate Bars. We generally have a stock of second-hand bars in good condition. We guarantee these bars to be practical for further use. Write us regarding your requirements and let us quote you money saving prices on either new or second-hand Grate Bars.

## COMMON GRATE BAR



No. 18-A-41.

Length, Inches.	Width, Inches.	Weight, Lbs.	Air Space, Inches.
24	2 1/2	22	1/2
26	2 1/2	22	1/2
27	2 1/2	23	1/2
28	2 1/2	24	1/2
30	2 1/2	26	1/2
33	3	34	1/2
36	3	36	1/2
42	3	40	1/2
48	3	48	1/2
54	3	54	1/2
60	3	68	1/2

## HERRING-BONE GRATE BAR



No. 18-A-42.

Length, Inches.	Width, Inches.	Air Space, Inches.	Weight, Lbs.
30	6	1/2	50
36	6	1/2	62
42	6	1/2	78
48	6	1/2	105
54	6	1/2	110
56	6	1/2	115
60	6	1/2	128
72	6	1/2	180

## Common Grate Bars—Heavy Pattern



No. 18-A-43.

Length, Inches.	Width, Inches.	Weight, Lbs.	Air Space, Inches.
42	3	50	1/2
48	3	61	1/2
50	3	62	1/2
54	3	68	1/2
60	3	83	1/2
66	3 1/2	104	1/2
72	3 1/2	114	1/2

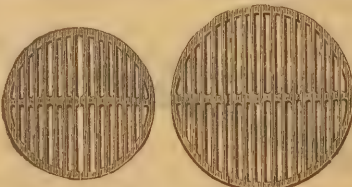
## Diagonal Grate Bars for Burning Slack Coal.



No. 18-A-44.

Length, Inches.	Width, Inches.	Air Space, Inches.	Weight, Lbs.
30	5	1/2	50
36	5	1/2	60
39	6	1/2	86

## Round Grate Bars for Upright Boilers



No. 18-A-46.

In two parts.		In three parts.	
in. dia.	lbs.	in. dia.	lbs.
16 in dia.	45 lbs.	16	120
18 "	50 "	20	120
20 "	75 "	22 "	122
22 "	85 "	24 "	125
24 "	95 "	26 "	142
25 "	100 "	30 "	145
		32 "	175
		33 "	179

## "PREMIER" GALVANIZED CORRUGATED TONGAN METAL CULVERTS are made of Galvanized Tongcan Metal Anti-Corrosive Rust-Resisting Sheets.



**Material.** Tongcan Metal is heavily galvanized by a special process and is far superior to the best galvanized iron and steel that is manufactured. In its strength, life and fibre are combined. It is not claimed that Tongcan Metal is absolutely incor-

rodible but it has been demonstrated that it is far superior in rust-resisting properties to the best Charcoal Iron and Steel manufactured today.

**Quality.** Under the most rigid tests along with steel and iron products it has in every instance shown so small a comparative loss that experts have placed it in a class by itself. "Premier" Corrugated Galvanized Tongcan Metal Culverts must not be confused with culverts made of Corrugated Galvanized Steel. Appreciating the conditions under which culverts are used special attention has been paid to the galvanizing and an extra heavy coat is placed on our Tongcan Metal Culverts.

**Endurance.** These culverts will stand alkali and sulphur and are guaranteed to be the best wear resisting culverts that it is possible to produce. The corrugations make them many times stronger than plain pipe of the same thickness.

**Lengths.** We furnish "Premier" Corrugated Tongcan Metal Culverts in any even foot length desired, but the following are the extreme lengths in which they can be shipped:

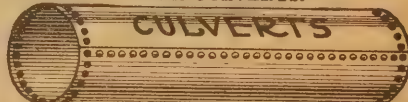
10, 12, 15 and 18 inch culverts up to 20 feet long.  
24 and 30 inch culverts up to 18 feet long.  
36 inch culverts in not to exceed 14 feet lengths.  
48 inch culverts in not to exceed 10 feet lengths.  
60 inch culverts in not to exceed 8 feet lengths.

**Joining Lengths.** Where a longer culvert of a given diameter is required it is shipped in two or more sections with joining bands which enable the purchaser to join the culverts together on arrival at destination making up the required lengths.

No. 18-A-60. Shipped from Factory, Cent. Ohio.			Diam. Gauge Price			Diam. Gauge Price		
Inch.	Metal.	Foot.	Inch.	Metal.	Foot.	Inch.	Metal.	Foot.
10	16	\$0.64	30	15	\$2.15			
12	16	.73	36	14	2.70			
15	16	.87	48	12	3.90			
18	16	.97	60	12	4.75			
24	15	1.40	72	10	6.30			

Write quantity and Size for Delivered Prices.

## STEEL CULVERTS.



**No. 18-A-48.** We have a large stock of heavy-steel culverts which are of interest to township and road commissioners. These culverts range in size from 6 to 72 inches in diameter, and in lengths up to 20 feet. These culverts are very strong and very durable. Write us for special prices on sizes that you want. We guarantee to save you big money and supply culverts that will be in every way satisfactory.



## CONCRETE MACHINERY

In accordance with our progressive policy we have contracted for the entire output of the largest Concrete Machinery manufacturers in the country. We are going to make a specialty of this business as it is a branch of the building industry and we have always been first in supplying building materials of high quality and at low cost. We offer the public the greatest opportunity to purchase Concrete Machinery of all kinds, inasmuch as we are in the best position to satisfy the demand of the public and meet every need of the market. The high prices that have been demanded for Concrete Machinery in the past are unwarranted and have been prohibitory, as the cost of building this class of machinery is not large enough to warrant heretofore high prices. We do business at a small expense and are satisfied with a correspondingly small profit. Anyone can afford to buy Concrete Machinery if it is only to put up one or two buildings. There is also wonderful opportunity for profitable investment by engaging in the manufacture of Concrete Products which you can make with our moulds. (This is a healthful outdoor business and you no doubt would find a ready market for this class of building material in your locality. We invite your friendly consideration to the following pages, illustrating and describing only a part of our line, which is the largest and most complete in the world.

**WRITE FOR OUR FREE SPECIAL CONCRETE MACHINERY CATALOGUE.**

### Konkrete King Building Block Machine

Face down, Vertical core. Guaranteed to Make as Perfect Blocks as any Machine on the Market, Regardless of Price. Sold on 10 Days' Trial. Your money Back if Not Satisfactory.



**\$16.45**

**Buys Complete Outfit for Making 8x8x16 inch and Fractional Size Building Blocks.**

Extremely liberal and we wish to say that we do not quibble about these matters. We guarantee not only a good machine, but courteous treatment. You need not hesitate about sending us your order or write us regarding Concrete Machinery or manufacture of Concrete building materials.

**CAPACITY:** The capacity of **KONKRETE KING** varies as to the skill and experience of the operator and also whether the concrete is mixed by hand or machinery. One man can turn out on an average of 100 blocks a day and two men can easily turn out 75 blocks. This capacity could easily be increased with a little practice. It is slower work mixing by hand than when a Concrete Mixer is used, as the materials, if delivered to the block makers very rapidly will be a great assistance in increasing the output.

**PALLETS:** **KONKRETE KING BUILDING BLOCK MACHINE** is now furnished with wooden Pallets only, saving the cost of iron Pallets. The wooden Pallets are made of two boards of the same length and width, cleated together to prevent warping. A sufficient supply of Pallets can be easily and quickly made with a few simple tools at a cost of only a few cents each. A sample Pallet is furnished with each machine.

**SINGLE OR DOUBLE CORE:** We furnish the **KONKRETE KING BUILDING BLOCK MACHINE** with either single or double core flask as ordered, unless otherwise stated machine is equipped with a single core flask. **KONKRETE KING** is made in three sizes and so constructed that any one of the three flasks can be used on one standard, which is a great advantage should you wish to make blocks of different size. All that is necessary is to order flask attachment wanted. Are furnished either single or double core, in three different sizes for making blocks 8x8x16, 8x10x16 and 8x12x16 inches.

**THE KONKRETE IS THE MOST COMPLETE OUTFIT** on the market for the money. It is a complete factory in itself and has a widely varied range of work. With it you can make more different sizes and faces of blocks with a fewer number of parts than any other machine on the market. We invite comparison and believe you will be convinced that we are giving the greatest value ever offered in Concrete Block Machinery.

**THE REGULAR OUTFIT** consists of the machine with rock face plate, two dividing plates, one gable dividing plate, two return end doors, two core gates, two joist block attachments, one face plate for making half and quarter blocks, one striker, one double end tamper and one sample pallet. With this outfit you can make a whole or fractional size block; in fact, the machine is in every sense complete and the equipment can be added to from time to time and you can make any face or anything desired for an ordinary dwelling except mill work. We can furnish face plates in the following designs: plain, rock, panel, cobblestone, tooled margin bush hammer, tooled face, tooled margin rock face, ashler face in six different designs, whirlwind scroll face, which are illustrated in the following pages. Unless otherwise specified the Machine is equipped with rock face design.

**KONKRETE KING BUILDING BLOCK MACHINES** are shipped direct from factory in Central Wisconsin. They are carefully crated to withstand rough handling in shipment and take the lowest possible freight rate.

No. 4-A-1867. **KONKRETE KING BUILDING BLOCK MACHINE.** Complete for making 8x8x16 inch blocks. Shipping weight 175 pounds. Price, \$16.45

No. 4-A-1868. **KONKRETE KING BUILDING BLOCK MACHINE.** Complete for making 8x10x16 inch blocks. Shipping weight 200 pounds. Price, \$19.90

No. 4-A-1869. **KONKRETE KING BUILDING BLOCK MACHINE.** Complete for making 8x12x16 inch blocks. Shipping weight 235 pounds. Price, \$23.50

**KONKRETE KING FLASK ATTACHMENTS:** All flasks are made to fit one stand. The illustrations show both single and double core and as explained before these flask attachments can be used on any **KONKRETE KING** stand and are attached without difficulty. For instance if you should order an 8x8x16 inch **KONKRETE KING BUILDING BLOCK MACHINE** and wish to make 8x10x16 inch blocks, it is not necessary to order a complete new machine, but just the flask attachment of that size; or if you wish to make the two sizes of blocks order the Machine and one extra flask attachment. We recommend making the two different sizes as the larger blocks can be used for foundations and the smaller blocks for the upper portion of the wall.

No. 4-A-1870. 8x8x16 inch **KONKRETE KING** Flask Attachment. Complete shipping weight 100 lbs. Price, \$10.95

No. 4-A-1871. 8x10x16 inch **KONKRETE KING** Flask Attachment. Complete shipping weight 135 lbs. Price, \$13.85

No. 4-A-1872. 8x12x16 inch **KONKRETE KING** Flask Attachment. Complete shipping weight 160 lbs. Price, \$16.95

**EXTRA FACE PLATES FOR KONKRETE BLOCK MACHINE:** Face plates are interchangeable, will fit any size **KONKRETE KING** Flask. No. 4-A-1873. Face plates for whole blocks. Be sure and mention design wanted. Weight 12 lbs. Price, \$1.47

No. 4-A-1873. Face plates for half and two quarter blocks. Be sure and mention design wanted. Weight 12 lbs. Price, \$1.30

**Special Note:** When placing your order for face plates, bay window and 4 inch course block attachments, do not fail to mention design wanted. When ordering circle block attachment be sure and mention design wanted; also state whether 8, 10 or 12 foot radius. When ordering end doors **KONKRETE KING BLOCK MACHINES** are interchangeable with the different sizes, with the exception of the end doors, and when ordering end doors be sure and specify that they are for 8x8, 8x10, or 8x12 inch blocks. All face plates are made with the chilled lugs and will not warp or break with ordinary handling.

**EXTRAS FOR KONKRETE KING BLOCK MACHINES.**

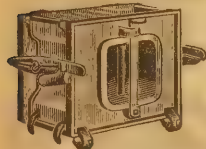
Return End Doors, right or left 4-A-1460. 7. \$0.70

Bay Window Attachment 4-A-1461. 35. 2.90

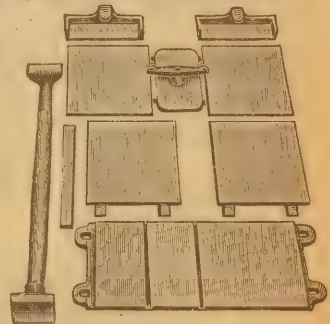
Circle Block Attachment 4-A-1462. 30. 2.90

Four inch Course Block Attachment 4-A-1463. 60. 4.75

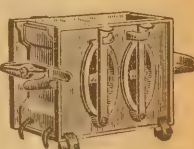
Dividing Pallets for 4-Inch Course Blocks 4-A-1464. 7. .23



Single Core Flask.



Double Core Flask.



8x10x16-Inch Machine				For 8x12x16-Inch Machine			
Catalog No.	Weight Pounds	Price each		Catalog No.	Weight Pounds	Price each	
4-A-1465	8	\$0.90		4-A-1470	10	\$1.20	
4-A-1466	35	3.25		4-A-1471	40	3.85	
4-A-1467	40	3.50		4-A-1472	45	4.25	
4-A-1468	50	5.50		4-A-1473	50	6.25	
4-A-1469	8	.26		4-A-1474	10	.32	



## DOWN BLOCK MACHINE.

The Only Machine Manufactured that Combines Practical Brick and Block-Making Moulds.

### \$36.40



The above illustration shows our X-L-ALL block machine with mould box closed, ready to receive material.

THE X-L-ALL MACHINE of the new model which we offer has been designed to fill the demand of the contractor and the concrete block manufacturer, for a machine in which both brick and blocks can be made. This has been accomplished by designing a brick mould, which is interchangeable with the block mould, and will fit the standard of either of the three sizes which we offer in block making machines.

THE X-L-ALL MACHINE is designed for the use of the contractor and concrete block and brick manufacturer; in fact, it is the best machine that can possibly be made for the use of any one who contemplates making bricks or blocks in any quantity.

It is the fastest machine on the market and extremely simple in construction and operation, as you will note from the illustrations, having absolutely no complicated parts to get out of order. Each machine is made in a thorough workmanlike manner with best gray iron castings; all parts are machine finished and made interchangeable.

In offering to our trade THE X-L-ALL MACHINE it is only after much investigation and thorough examination of all high-grade machines now in the market that our concrete expert concluded that THE X-L-ALL MACHINE combined all the advantages that could possibly be obtained in a strictly first-class machine. We are not experimenting at the expense of our customers, but offer this machine under the following guarantee:

We guarantee THE X-L-ALL MACHINE to be the FASTEST and most perfect face-down vertical core block machine of its type ever offered, and that it will

in every respect be satisfactory to you and in every way as represented. We further guarantee that it will arrive at your station in perfect condition, and to replace any part that may prove defective either through material or workmanship for a period of one year from date of purchase. Should any part become broken or lost on receipt, have your agent note such parts broken or lost on the Bill of Lading, which you will send to us, and we will immediately furnish duplicate parts without cost to you.

We offer 10 days' trial which will give you a sufficient opportunity to thoroughly test the machine, and if you do not find it in every way satisfactory you can return the machine at our expense and we will refund the amount paid, together with any freight charges which you have paid.

Capacity of THE X-L-ALL MACHINES. One man can easily turn out 125 blocks in a day; two men can turn out 250 to 300 blocks in a day.

With X-L-ALL concrete mixers the capacity can be greatly increased. With a brick mould you can turn out from 2,000 to 2,500 perfect brick. The construction of the X-L-ALL machine. We wish to call your attention to the fact that this machine is constructed on the face-down principle with vertical cores. The face-down principle is acknowledged by all concrete engineers to be the only method possible to produce a perfect block. This principle permits making the face of the block with a mixture of 2 to 1, and a backing of 5 to 1. It reduces the cost of the block very materially without injuring the durability of the block. The face being exposed to the weather, and made of a richer mixture than can be made by any other style of machine, makes the block practically water-proof without water-proofing, and by this method you can make a block with any style of face much cheaper and clearer than can possibly be produced in any other manner. Also the face of the block can be colored or water-proofed at a very small cost by the use of THE X-L-ALL FACE-DOWN MACHINE.

We show herewith an illustration of THE X-L-ALL CONCRETE BLOCK MACHINE for making blocks one size only, either 8x8x16, 8x10x16 or 8x12x16 inches. The brick mould is a separate part, and is not included in the price of the outfit furnished with the block machine. You will understand that the finished size of the concrete blocks in either of the three sizes is  $\frac{1}{4}$ -inch scant all around, allowing for mortar joints, making block full size when laid in the wall.

Our concrete block outfits are more complete than furnished with any other similar type of machine. With this outfit you can make a full block, one-half and one-quarter blocks, return corner blocks, also round corner window blocks and joist blocks in both Rock and Plain Face design. We give you your choice of any 2 styles of faces that you desire, but unless otherwise specified we always furnish THE X-L-ALL MACHINE with a plain and rock face.

We show herewith illustration of parts furnished with each X-L-ALL CONCRETE BLOCK MACHINE, and the following is a complete list of parts furnished with each machine:

- |  |  |
|--|--|
| 1 Plain Face Plate for making whole blocks,                    | 2 Pallet Plugs,  |
| 1 Plain Face Plate for making one-half and one-quarter blocks, | 2 Dividing Plates for $\frac{1}{2}$ and $\frac{1}{4}$ size blocks, |
| 1 Rock Face Plate for making whole blocks,                     | 1 Graduating Bar,  |
| 1 Rock Face Plate for making one-half and one-quarter blocks,  | 1 Steel Plate for inside corners,                                  |
| 1 Left Hand Rock Face End Door,                                | 1 Steel Plate for making Gable Blocks,                             |
| 1 Left Hand Plain Face End Door,                               | 1 Joist Block Attachments,   |
| 1 Right Hand Rock Face End Door,                               | 1 Steel Carrier,   |
| 1 Left Hand Core End Door,                                     | 1 Steel Striker,   |
| 2 Core Plugs,  | 1 Double End Tamper,   |
|  | 1 Sample Wood Pallet,  |
|  | 1 Sample Iron Pallet.  |

PALLETS. THE X-L-ALL MACHINE is designed for the use of either iron or wood pallets. We would recommend iron pallets; they cost but very little, if any, more than the wood pallets properly made. More block are lost by the use of poorly made wood pallets than the value represented by a full set of iron pallets. Iron Pallets do not warp, and are practically indestructible. We furnish 1 each sample iron and wood pallet with each X-L-ALL BLOCK MACHINE.

THE X-L-ALL CONCRETE BLOCK MACHINE and parts are shipped direct from factory, located near Chicago.

### PRICES ON X-L-ALL CONCRETE BLOCK MACHINES.

- No. 4-A-1475. X-L-ALL CONCRETE BLOCK MACHINE complete for making 8x8x16 inch blocks. Shipping weight, 450 pounds. Price.....\$36.40
- No. 4-A-1476. X-L-ALL CONCRETE BLOCK MACHINE complete for making 8x10x16 inch blocks. Shipping weight, 480 pounds. Price.....\$41.25
- No. 4-A-1477. X-L-ALL CONCRETE BLOCK MACHINE complete for making 8x12x16 inch blocks. Shipping weight, 575 pounds. Price.....\$45.75

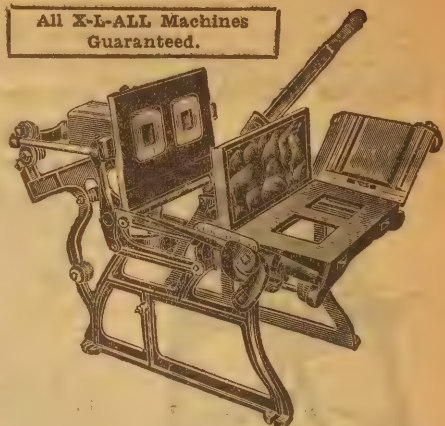
KONKRETE KING FACE PLATES AND PARTS ARE NOT INTERCHANGEABLE WITH THE X-L-ALL MACHINES. Face Plates for X-L-ALL BLOCK MACHINES are interchangeable and will fit any size X-L-ALL FLASK.

- No. 4-A-1482. Face Plate for Whole Block. Shipping weight, 28 pounds. Price.....\$1.65
- No. 4-A-1483. Face Plate for one-half and two-quarter blocks. Shipping weight, 25 pounds. Price.....1.69

Extras For X-L-All Face Down Block Machine.				For 8x8x16 inch Machine.				For 8x10x16 inch Machine.				For 8x12x16 inch Machine.			
No.	Wgt., lbs.	Price		No.	Wgt., lbs.	Price		No.	Wgt., lbs.	Price		No.	Wgt., lbs.	Price	
Return End Doors, right or left.....	4-A-1484	8	\$1.25	4-A-1489	11	\$1.42		4-A-1494	17	\$1.50					
Bay Window Attachments.....	4-A-1485	75	5.25	4-A-1490	80	5.47		4-A-1495	80	5.25					
Circle Block Attachments.....	4-A-1486	75	5.60	4-A-1491	80	5.67		4-A-1496	85	5.80					
4 inch Course Block Attachments, complete.....	4-A-1487	65	6.95	4-A-1492	150	10.95		4-A-1497	170	11.50					
Water Table Outfit.....	4-A-1488	100	7.50	4-A-1493	110	7.95		4-A-1498	120	8.45					
Iron Pallets.....	4-A-1411	8	.25	4-A-1493 1/2	10	.32		4-A-1498 1/2	12	.38					

SPECIAL NOTE.—When placing order for Face Plates, Bay Window and 4 inch Block Attachment, do not fail to mention the design desired. When ordering Circle Block Attachments, be sure and mention design wanted. Also state whether 8, 10 or 12 foot radius. When ordering End Doors, mention whether right or left hand, and design wanted. All Face Plates used in connection with THE X-L-ALL BLOCK MACHINES are interchangeable with the different sizes. Face Plates and parts of THE X-L-ALL MACHINE are not interchangeable with the KONKRETE KING MACHINE.

All X-L-ALL Machines  
Guaranteed.



The above illustration shows our X-L-ALL block machine with mould box open, pallet in place.





# Flask Attachments for X-L-All Concrete Block Machines

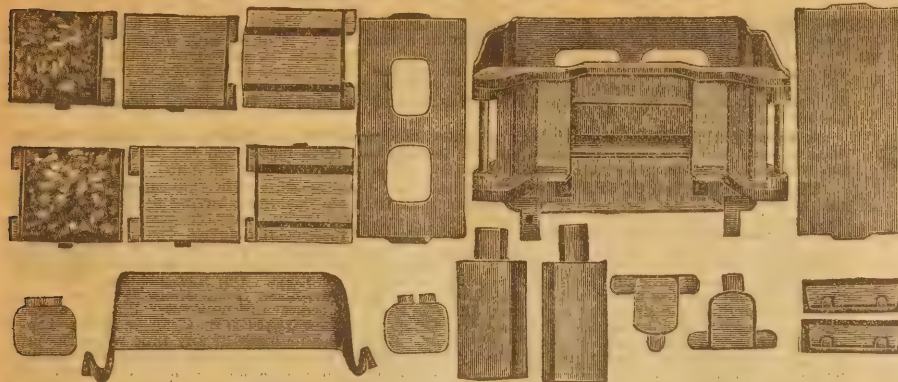
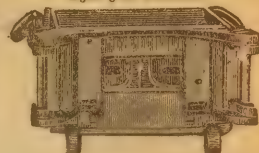


ILLUSTRATION SHOWING COMPLETE OUTFIT FURNISHED WITH ALL X-L-ALL BLOCK MACHINE FLASK ATTACHMENTS.



Flask for making brick, size 2 3/4 x 3 1/2 x 8 inches.



Flask for 8x8x16 inch block.

On X-L-ALL BLOCK MACHINES all flasks are interchangeable. You can order one machine complete, and if you wish to make brick or blocks of other sizes you can do so by ordering extra flasks. In ordering extra flasks, you will understand that you can only make one size block or brick at one time. If you have sufficient work, we

recommend ordering complete outfit for each size block you wish to make. In purchasing your outfit do not overlook the flask attachment for making brick. With this attachment you can make 8 plain facebrick at one operation by the face-down principle. 1 double end tamper, 1 smoothing trowel, 1 sample wooden pallet.

## PRICES OF X-L-ALL FLASK ATTACHMENTS.

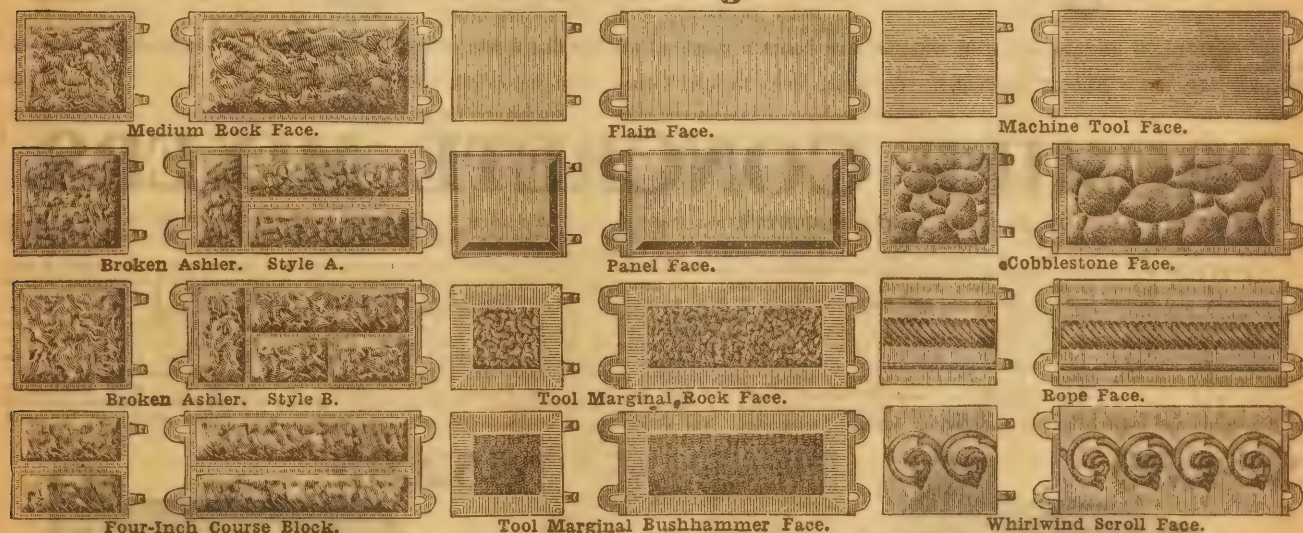
No. 4-A-1478.	X-L-ALL Flask Attachment for making 8x8x16 inch blocks. Shipping weight, 180 pounds.	Price.....	\$16.75
No. 4-A-1479.	X-L-ALL Flask Attachment for making 8x10x16 inch blocks. Shipping weight, 210 pounds.	Price.....	20.25
No. 4-A-1480.	X-L-ALL Flask Attachment for making 8x12x16 inch blocks. Shipping weight, 250 pounds.	Price.....	24.75
No. 4-A-1481.	X-L-ALL Flask Attachment for making brick, size 2 3/4 x 3 1/2 x 8 inches. Shipping weight, 140 pounds.	Price.....	36.75

## EXTRAS FOR X-L-ALL BRICK FLASK.

As we have stated, THE X-L-ALL Brick Flask Mould is equipped for making plain face brick. We can furnish Face and End Plates to make Rock, Plain or Panel Face brick. In ordering be sure and state which style Face Plate you desire.

No. 4-A-1499.	Face Plates. Each.....	\$1.75	No. 4-A-1500.	End Plates. Each.....	1.00
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## Face Plates for Konkrete King and Block Machines.



THE ILLUSTRATIONS ABOVE show the various face plates which we can furnish with our KONKRETE BLOCK MACHINES. If desired we can furnish any of the above plates instead of the rock face plate, which is always furnished with our machines unless otherwise specified. In case one wishes to substitute any of these face plates, please mention design wanted when ordering and in ordering extra face plates be sure and mention which of our machines it is to be fitted to, as the plates that will fit one machine will not fit another machine. That is to say, what will fit a KONKRETE KING will not fit the X-L-ALL machine. When ordering end doors please state whether right or left hand end door is wanted. All our face plates are of good design and of the very latest pattern and we aim to keep up with the demand and not only will you be provided with any design of face plates for our machines that can be secured with other machines, but we also originate designs from time to time and you can have face plates for our machines that cannot be secured on any other machine on the market. The list as shown is only a partial one, but we have other designs which will be illustrated in our Special Concrete Machinery Catalogue.

NOTE: ASHLER FACE PLATES CANNOT BE FURNISHED IN FRACTIONAL SIZES.

## Konkrete King Pier and Chimney Moulds

CONCRETE IS THE BEST FIRE RESISTING MATERIAL KNOWN, as it will not crumble or crack under the most intense heat and recently it is being very extensively used to build substantial, safe and fire-proof chimneys. It does not require any particular skill to build a CONKRETE CHIMNEY and the work can be done very quickly. They are cheaper because the material can be had for less than clay brick or fire brick, and also because it does not require a mason to build them. These moulds can also be used to construct PORCH PIERS, Fence Posts, etc. We give you the choice of design, either of rock face or imitation brick face. A brick face block represents a number of brick already laid. Other designs can also be had in case it is desired to use the mould for porch piers, such as panel face, tooled margin bush hammer face, etc. When it is desired, the mould can be made solid without using the core. This is desirable when constructing a pier that is to maintain a heavy load. The mold is furnished in three sizes.

No. 4-A-1872. Imitation Brick Face. 16x16x7 1/2 inches deep, with 8-inch square core. Complete with tamper, Shipping weight 70 pounds. Price..... \$5.45

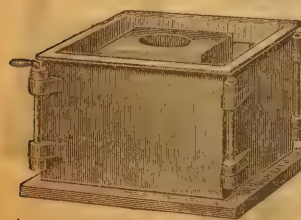
No. 4-A-1873. Imitation Brick Face. 16x20x7 1/2 inches deep, with 8x16-inch core. Complete with tamper, Shipping weight 90 pounds. Price..... \$6.95

No. 4-A-1874. Imitation Brick Face. 22x24x7 1/2 inches deep, with 12x16-inch core. Complete with tamper, Shipping weight 110 pounds. Price..... \$8.25

No. 4-A-1875. Rock Face. 16x16x7 1/2 inches deep, with 8-inch square core. Complete with tamper. Shipping weight 70 pounds. Price..... 5.45

No. 4-A-1876. Rock Face. 16x20x7 1/2 inches deep, with 8x16-inch core. Complete with tamper. Shipping weight 90 pounds. Price..... 6.95

No. 4-A-1877. Rock Face. 20x24x7 1/2 inches deep, with 12x16-inch core. Complete with tamper. Shipping weight 110 pounds. Price..... 8.25

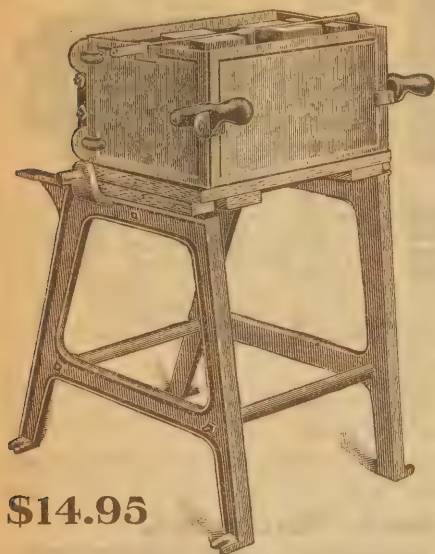


ping weight 110 pounds. Price.....



# SILO BLOCK MACHINE.

**WE OFFER THE BEST SILO BLOCK MACHINE ON THE MARKET.** The illustration of the block will explain itself. As will be noticed, at each end of the block is an open space. When the blocks are laid the ends come together, forming a core which is filled with mortar, binding the stones firmly together. In the body of the block will be noticed two square holes running clear through. These are for air spaces in the wall. You will also notice a small round hole in the center of the block which is only about one inch deep. The ends of the second layer being laid directly over this depression. The mortar, when filled in the core, comes down into the second layer, this not only binding the two stones together, but also uniting both layers.



**\$14.95**

**A CONCRETE SILO** properly built of these blocks will be everlasting and stronger than any wood or stone silo that could be made, and the farmers and their hired men can do the entire work, and when up it will be better and cheaper than any other kind that could be built.

**THE SPLENDID SUCCESS** the farmers have had building silos with this machine makes us feel rather jubilant, and we have received testimonials from our customers saying that it is the only really good Silo Machine made. We even received a recommendation from the Agricultural Department at Washington which is something unusual. It is the interlocking device that makes this silo so strong, as when once up the silo is one solid mass of stone, airtight as a closed bottle, with air flues running through from the outside bottom to the top, preventing the moisture or dampness from striking through, causing slime and spoiling the ensilage adjoining the stone. Our machine is so simple that any man or boy can use it. Simply put a pallet in the machine, filling it full of moist cement, tamp it down, then drop the sides and ends away and the stone is ready for removal. Put in another pallet and repeat the operation. The stone will set in a very few hours so they can be removed from the pallet and the pallets used over and over again. Blocks can be made at any time when the farm help is not busy and the blocks will fit perfectly without being dressed as they are of accurate measurements to construct a silo 16 or 18 feet in diameter, and the wall can be laid up in a very short time. The blocks are very much better than stone because they are stronger and do not require a mason to lay the wall. They are everlasting, and you can make enough blocks on this machine to furnish silos and building blocks for all the neighbors and make many times the cost of the machine; in fact, build up a very profitable trade. Hundreds of silos have been built with these machines in the last few years and we have never received a complaint from any of our customers. On the other hand, we know of silos, built on other machines, which have cracked from the bottom to the top, spoiling the entire contents. We send complete instructions telling how to build a silo with concrete blocks, not only telling how to make the blocks yourself but to prepare foundations, construct the door jams, door, roof, rafters, and giving approximate cost. A silo is the most economical investment a farmer can make, and with one of these machines will save more than one-half what it would cost to build with wood, brick or stone.

**SIZE OF BLOCK** is 16 inches long, 8 inches high and 10 inches wide.



**IN ORDERING** be sure and state whether you desire a machine for building a Silo 16 or 18 feet in diameter. Shipped from factory, Central Wisconsin.  
**No. 4-A-1878: SILO BLOCK MACHINE.** Complete. State diameter wanted. Shipping weight, 160 pounds. Price..... **\$14.95**

# PREMIER CONCRETE MIXERS.

**THE ADVANTAGES OF MACHINE MIXED CONCRETE** over that mixed by hand are so well known to every cement user that it is unnecessary to enumerate them or to urge upon every one who uses concrete for any purpose to purchase a **CONCRETE MIXER** that will really mix. The only question to be determined is the selection of a Mixer that will positively mix the materials.

**WE OFFER** two Mixers, one hand-power and one belt-power, at wonderfully low prices, which we guarantee will mix the concrete thoroughly and quickly. These Mixers consist of a steel drum with cast iron heads. The drums are reinforced by angle irons placed at frequent intervals which catches the material and carries it partially around and tumbles it back, in such a manner as to thoroughly mix a batch in a minute's time. It insures an absolutely perfect mixture of the materials. Before it is discharged, water is sprayed through the mass, which is fed through a hollow shaft which is perforated at frequent intervals. The holes vary in size, so that the water flows the entire length of the shaft and wets the whole mass uniformly. The flow of water is controlled by a check valve in the feed pipe. The result is a thoroughly dry mixture followed by a perfectly wet mixture. To take care of the discharged materials, the frame is provided under the drum with a hopper sufficiently large to hold two batches at one time. The principle of this Mixer is not essentially different than other makes, with certain improvements which facilitate the mixing and handling of the concrete, and we are able to save you more than half of what others charge for Mixers which are not anywhere near as successful as ours. Our mixers have been thoroughly tested and we are able to offer them as the very best manufactured for mixing concrete materials. They are subject to our full guarantee against defect in workmanship and material and are shipped on our usual trial offer. The drums are of heavy gauge steel, the shafts of cold rolled steel. On the hand

**\$24.50**



Mixer the power is produced by two gears of four to one dimensions. The crank is attached to the small gear and has a sweep of 30 inches. The speed is about 15 revolutions per minute. The frame is made of 3 x 3 hardwood timbers, well fitted and securely bolted and reinforced by long rods. The capacity is three to four cubic feet at one charge.

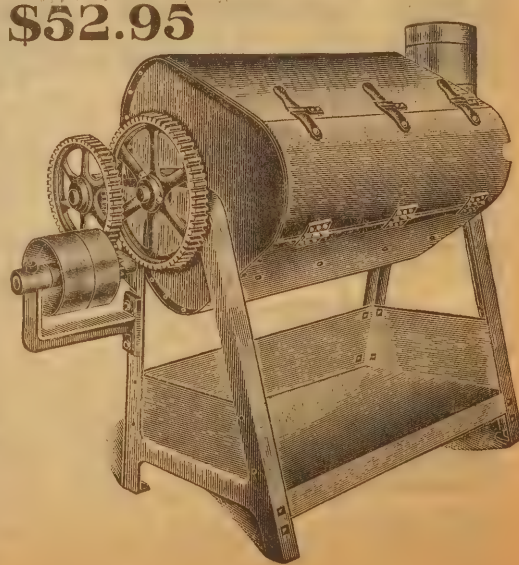
**THE POWER MIXER** is built to run from either gasoline or steam engine. It is constructed on the same principle as the hand mixer, only having an iron stand and iron hopper instead of a wooden one. The capacity is five to six cubic feet to each batch.

Shipped from factory, Central Wisconsin.

**No. 4-A-1879. Dimensions of Hand-Power Mixer:** Diameter of drum, 23 inches. Length of drum, 30 inches. Length, over all, 4 feet 2 inches. Height, over all, 4 feet 4 inches. Capacity, 3 to 4 cubic feet. Shipping weight, 275 pounds. Price..... **\$24.50**

**No. 4-A-1880. Specifications for Belt Power Mixer:** Diameter of drum, 26 inches. Length of drum, 36 inches. Length, over all, 4 feet 8 inches. Height, over all, 4 feet 8 inches. Capacity, 5 to 6 cubic feet. Shipping weight, 400 pounds. Price..... **\$52.95**

**\$52.95**





# Metal Roofing, Siding and Ceiling

## THE BEST AND MOST LASTING COVERING MANUFACTURED



**N** offering you Steel and Iron Covering for Roofing, Siding and Ceiling purposes, we do so with absolute confidence that **no better covering exists.**

The ordinary plain painted sheet iron has been **in use for over a century and by every comparison has proven itself the best for all general purposes**, where full protection combined with durability and economy are sought. There is no question about its superiority over any other roof covering. **It excels all other coverings and is practically without fault.** There are many instances where iron roofs in first class state of preservation now exist, that **were laid from twenty to fifty years ago** and outside of painting them once every three to five years have been practically without repair. Of course very much depends on the thickness of the iron and whether the roofing is made of painted or galvanized material. More about this will be said in the following pages.



**T**HE particular points of advantage by the use of metal roofing are, **first, price; second, endurance; third, simplicity of laying.** As to price, it is **cheaper than shingles** and practically on an equal basis with felt or tarred roofing. A great many fires originate on a shingle roof; this one special point is reason enough to show its vast superiority. It is proven by instances on record that **it will last as long as fifty years.** The so called Ready Roofing, now being introduced to the public, has never had an opportunity to prove its value or lasting qualities. As compared to Ready Roofing, **Metal Roofing will outlast it five to one.** Patent Prepared or Composition Roofing, cracks and curls with age. Tarred Roofings rot and spoil. Most Ready Roofings soften in the warm air and sunshine. They stick to your feet when walked upon. Slate Roofing requires a steep pitch and a heavy, expensive structure to support it and will weigh almost seven times as much as the Steel Roofing. It breaks in freezing or thawing and from heat of near by fires. It costs twice as much and is exceedingly expensive to keep in repair. **Steel roofing is fire and lightning proof.** Its use is strongly advocated by underwriters. A building covered with iron and steel, struck by lightning, has never been known to be damaged. The reason for this is the bolt striking the metal scatters the electricity and this leaves no damaging effect whatever. This protection is certainly worth price of painting the roofing from time to time. That is practically all the expense that exists after the roof is laid. **Farmers who require a good roof**

**on their barn ought to appreciate this.** Take it as a rule, their barns are full of grain and hay at certain seasons of the year and cannot always be covered by insurance.



**I**T is easy to lay, requiring no previous experience. Except in the case of the Standing Seam Roofing, no tools except an ordinary hatchet or hammer are required. On the Standing Seam a special set of tools is needed, which we furnish at \$3.00 per set, but this price is refunded when the tools are returned to us.

### OUR QUOTATIONS DO NOT INCLUDE LAP.

Prices named on the various grades of Metal Covering, do not include lap. It is impossible for us to compute the amount necessary for lap, as the conditions vary. Sometimes it is wise to give your roofing a whole lot of lap, especially where you are anxious to get a very fine roof. We should safely say that 10% ought to be counted as the amount necessary for lap. **Be sure you add that much in figuring the amount needed for your roof.**

A square of roofing consists of 100 square feet. That does not mean that the sheet is 100 feet in length, but it means that when we say we will furnish a square of roofing, we will furnish enough sheets to make a total of 100 square feet, not including lap. To figure out the amount of material needed to cover a given space, find out the total number of square feet in space to cover and add to it 10%. As to laying this material, full directions will be found on a following page.

This Metal Covering is used for roofing, siding and ceiling. Also for lining bins and floor covering to make a vermin proof building or compartment.

We furnish the following different styles of sheets:

**Flat Sheets, Corrugated Sheets,  
"V" Crimped Sheets, Imitation  
Pressed Brick Siding, Standing  
Seam Sheets, Beaded Siding and  
Ceiling.**

Illustrations showing these various styles appear on the following page.

We recommend the use of the Corrugated Sheet wherever possible. Though the same thickness it is a tougher and a stronger sheet than any of the other styles on account of its corrugations giving it added rigidity.



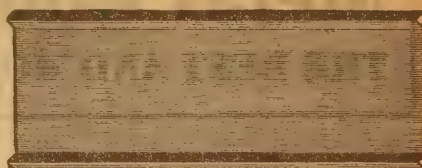
# Metal Covering Comes in Following Styles



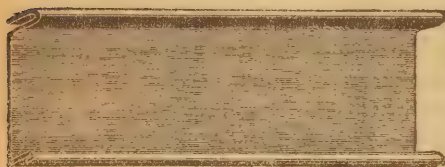
Flat Sheets



Corrugated Sheets



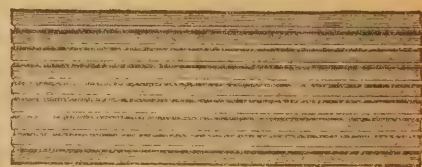
"V" Crimped Sheets



Pressed Standing Seam Sheets



Pressed Steel Siding



Beaded Siding or Ceiling

Metal Covering Comes in Two Different Kinds of Steel

## Steel Sheets, Painted

The standard of Metal Roofing is painted steel sheets. In other words the sheets are plain black. For all ordinary purposes painted roofing will be generally found good enough. We furnish our painted roofing with one light coat on it. This of course is not sufficient, and after it is on the roof it will require an additional good coating.

## Steel Sheets, Galvanized

These sheets are the same as the black but have an added galvanized coating that makes them lasting and permanent. Our galvanized, rust proof iron is made of the very best grade of specially manufactured metal sheets. The galvanizing process protects these sheets from rust for all time. A thorough coat of noncorrosive metal, consisting of tin, lead and zinc, so called spelter, becomes a part of each sheet through the special dipping process employed. This gives the heaviest possible coat of galvanizing necessary for any covering purpose. Galvanized sheets have proven the very best covering known. Positively will not taint your rain water. A permanent lasting covering. Costs more than the painted but is well worth the difference.

### As to Sheathing

We recommend that Metal Roofing be laid on sheathing boards put close together. Boards need not necessarily be planed, but should be of equal thickness. While it can be laid over shingles without removing them, it will make a much better job if laid direct on sheathing boards.

### As to Painting

We recommend that all Metal Roofing and Covering be painted after it is laid. We can furnish you at a low price a first-class coating that will do the work. After a period of a year, another coat should be applied and at regular intervals of say three or four years as found necessary. Keep your Metal Covering properly painted and you have got something that will last you indefinitely.

### As to Felting

We advise that a layer of Roofing Felt always be laid under Metal Roofing where gas or steam is used in the building or where there is heat next to the roof. It will prevent sweating in cold weather, at the same time preserving the paint on the other side of the roof and serve as a non-conductor to heat and cold. We can furnish Felt Covering at very low prices. It is quoted elsewhere in this catalog.

## Special Freight Prepaid Notice

As a special inducement to get your order at once, we make the following proposition which will be in force until further notice:

On all new Metal Roofing, Siding and Ceiling, quoted on page 97, we will prepay the freight in full to your railroad shipping point, provided the destination is East of the Colorado state line and provided it is not in Oklahoma or Texas. This means that we will positively pay all the necessary carrying charges and the prices as shown on the above pages prevail in full. Now don't confuse this freight prepaid offer with any other part of our catalog. It does not say that we prepay the charges on any other goods. Has nothing to do with it. It refers strictly to the Roofing, Siding and Ceiling mentioned above. Neither does it mean that we prepay the charges on any of the used or second-hand roofing quoted elsewhere in this catalog. It is only on the new material that the proposition is in force. All other quotations in this catalog, unless we state to the contrary, are strictly free on board cars, Chicago, and not freight prepaid.

We will prepay the freight to Oklahoma or Texas at 15c per square advance over our printed prices shown in this catalog. We will prepay the freight to all points West of Colorado at 50c per square advance. Bear in mind that this proposition of freight prepaid, refers only to new metal covering.



## METAL ROOFING, SIDING AND CEILING

The numbers referred to have nothing to do with the thickness or gauge of iron, but are used for convenience so that we can correctly fill your order and know just what you are ordering.

**Grade No. 10.** A light semi-hardened, brand new, perfect, high grade material which comes in sheets 6 feet or 8 feet long. We can, however, furnish lengths 2, 3, 4 and 5 feet. The sheets when flat are 24 inches wide. In "V" crimped or corrugated the sheets are 22 inches wide. This light weight material cannot be furnished in Standing Seam. Price per square as follows:

Flat, unpainted.....\$1.60  
Corrugated or "V" Crimped, unpainted.....1.85  
Flat, painted.....1.75  
Corrugated or "V" Crimped, painted.....1.95

**Grade No. 11.** The description of this material is exactly the same as the No. 10 grade, quoted above, except the sheets are much heavier. We can furnish this in all styles. Price per square as follows: Flat, unpainted.....\$1.85  
Corrugated, "V" Crimped or Standing Seam, unpainted.....2.10  
Flat, painted.....1.95  
Corrugated, "V" Crimped or Standing Seam, painted.....2.20

**Grade No. 12.** A heavy black sheet, full 27 gauge. The material is brand new. The sheets range from 2 feet to 8 feet in length, and the widths are, when flat, 24 and 26 inches, and in all other styles 24 inches. Price per square as follows:

Flat, unpainted.....\$2.20  
Corrugated, "V" Crimped or Standing Seam, unpainted.....2.45  
Flat, painted.....2.30  
Corrugated, "V" Crimped or Standing Seam, painted.....2.55

**Grade No. 13.** Galvanized, unpainted covering. Here is a metal which for lasting qualities is unequalled. It is heavily galvanized and shipped unpainted. Will stand the toughest conditions better than any other kind. It is especially good near the seashore, and will not be affected by salt water. You can give it a coat after it is on your roof, although it is not necessary. It is light weight, but the galvanizing on this material is just as heavy as it is on the heavier sheets. We have no hesitancy in recommending it for all general Roofing, Ceiling and Siding Purposes. The sheets when flat are 26 inches wide and 6 feet long. When corrugated or "V" crimped they are 24 inches wide and 6 feet long. We do not furnish it in Standing Seam. Price per square as follows: Flat.....\$3.00  
Corrugated or "V" Crimped.....3.25

**Grade No. 16.** A heavy galvanized covering, made of the same material as the No. 18 grade, but very much heavier. We can furnish sheets 26 or 24 inches wide when flat, and 26 or 24 inches wide when Corrugated, "V" Crimped or Standing Seam. Price per square as follows: Flat.....\$3.50  
Corrugated, "V" Crimped or Standing Seam.....3.75

All the above corrugations are 1½ inches wide. We can, however, furnish grades No. 11, 12 and 13 in 2½ inches wide corrugations without additional charge.

### PRESSED STEEL BRICK SIDING

Made of sheet metal, painted and galvanized. It can be applied by anyone; lays perfectly smooth, and after applying has all the appearance of pressed brick. It costs no more than wood siding and just about a fifth of the expense of laying brick. It is durable, cheap, and a protection against fire. As a siding it has no equal. The sheets are usually 24 inches wide by 68 inches in length. We can furnish it in the grades described above at the following price:

#### PRICES PER SQUARE

No. 10, unpainted.....\$1.85	No. 12, unpainted.....2.45
No. 10, painted.....1.95	No. 12, painted.....2.55
No. 11, unpainted.....2.10	No. 13, galvanized.....3.25
No. 11, painted.....2.20	No. 16, galvanized.....3.75

### BEADED SIDING AND CEILING

Same as illustration on previous page. It is adapted for all general ceiling purposes. Can be used in stores, kitchens, factories, public halls, and, in fact, it is an all around Ceiling and Siding. The beads are small corrugations ¾ inch wide by ¾ inch deep and 3 inches from center to center. It does not require any special tools to apply it. The sheets should be lapped 1 or 2 inches at the end and about one crimp at the sides. You can apply them either horizontally or perpendicularly to the boards, studding or joist, or you can put them on over old plaster. Sheets are 24 inches wide and usually 6 feet in length. We can furnish it in the grades described above at the following prices:

No. 10, unpainted, per square.....	\$1.85
No. 10, painted.....	1.95
No. 11, unpainted.....	2.10
No. 11, painted.....	2.20
No. 12, unpainted.....	2.45
No. 12, painted.....	2.55
No. 13, galvanized.....	3.25
No. 16, galvanized.....	3.75

The above prices are included in our special freight prepaid notice on previous page.

### EXTRA

All prices for covering are made without nails, paint, "V" sticks or tin cleats. We charge extra for these items, as follows: Nails, per square.....\$0.05  
"V" sticks for use in applying "V" crimped roofing, per square......10  
Tin cleats for use in applying standard seam roofing, per sq......10  
Dry Paint, either red or black, for quantity sufficient to cover one square......05  
Ready Mixed Roofing Paint, in buckets of 5 or 10 gallons, red or black. Price per gallon in quantities of 5 gallons or more......44  
Lead Washers, for quantity sufficient to lay one square......10

### USED ROOFING AND SIDING MATERIAL

Prices are all f. o. b. cars, Chicago. We usually have in stock quantities of used Metal Covering which we sell at very low prices. We guarantee descriptions to be accurate. Quotation is made, however, subject to stock on hand. In sending us your order, be sure to use the various lot numbers shown.

**Lot No. 1.** Ranges from 20 to 22 gauge, widths from 24 to 30 inches, lengths from 5 to 8 feet. Painted black two sides; perfect condition, free from nail holes; 2½-inch corrugations.

Price per square.....\$2.60

**Lot No. 3.** Comes in 24 to 27 gauge, widths 22 to 28 inches, lengths 3 to 8 feet. Has occasional nail holes; painted black two sides; 2½-inch corrugations. Price per square.....\$1.75

**Lot No. 3½.** Same specification as No. 3, but free from nail holes. Price per square.....\$1.90

**Lot No. 4.** Galvanized, gauges from 24 to 27, widths 20 to 28 inches, lengths 3 to 8 feet; 2½-inch corrugations. Price per square.....\$2.80

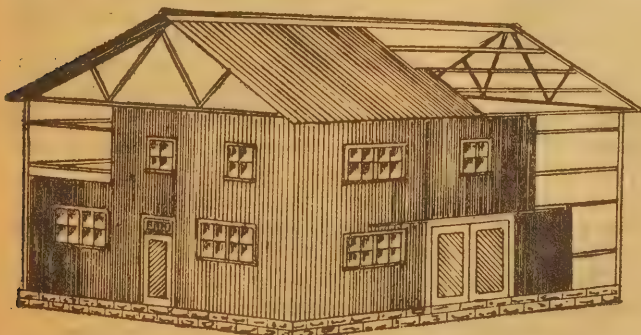
**Lot No. 4½.** Same specification as No. 4 except with occasional nail holes. Price per square.....\$2.50

**Lot No. 6.** An extra fine lot of used sheets, 24 gauge, painted black two sides, lengths all 5½ feet, widths all 2 feet, one size sheets. Price per square.....\$2.00

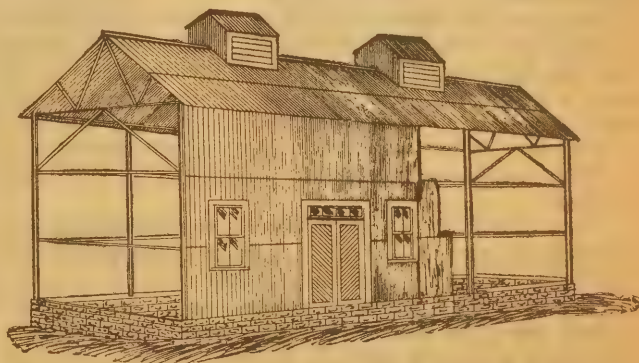
**Lot No. 17.** 28 to 29 gauges, sheets from about 16 to 22 inches wide, lengths from 20 to 30 inches; 1½-inch or 2-inch corrugations; in good condition. Price per square.....\$1.50

**Note:** We cannot furnish any of these grades of used Roofing Material in specified sheets or gauges, but only as described. Where sheets have a range in size or in thickness, they will only be furnished in that way.

### CORRUGATED ROOFING



This cut shows a ridge roof frame structure of simplest shape in process of being covered with corrugated iron, and also shows how to put on the ridge cap, more fully described elsewhere in this catalog. Wherever the iron is applied direct to studding or rafters which run in the same direction the corrugations do, the distance between the centers of the studding or rafters must be exactly the width of the sheet. The illustration shows the way to put this on the cheapest kind of a building, and we do not recommend to put it on in this way. It is always best to apply Roofing or Siding direct to sheathing. See instruction for putting this on elsewhere.



This picture shows how to put on corrugated iron on a building made of angle iron or other steel structural material. As a cheap, durable fireproof covering, Corrugated Iron is unquestionably the best. It is extensively used everywhere for all kinds of buildings, porticos, etc.

In ordering material, give us, whenever possible, a sketch of your building, and we will send sheets as near as we can to your requirements, so that there will be very little cutting or waste.

SAMPLES OF ANY GRADE WILL BE SENT FREE ON APPLICATION.



## GENERAL DIRECTIONS FOR APPLYING METAL COVERING

### HOW TO LAY THE CORRUGATED IRON ROOFING

Begin to lay the sheets from the eaves, first covering the lower left hand corner projecting one corrugation over the side and from 2 to 4 inches over the eaves. Hammer the projecting side corrugation down against the edge of the sheathing, nailing it in place. Nail across the sheet near the eaves through the tops and alternate corrugations.

Place second sheet to the right of the first, lap over one corrugation of the first sheet and with the same amount of eave projections. Nail the sheets where they lap and directly perpendicular through tops of the corrugation and about 8 inches apart. Nail also left to right across the entire length of the roof, then begin at the right to lay the second row in the same manner as first and so continue until the entire roofing is laid.

When nailing across the lower ends of the sheets in the second row, put the nails so they will pass through both the first and second row, etc.

### HOW TO LAY THE CORRUGATED SIDING

Begin at the left hand corner in applying the corrugated from base to cornice, giving the sheets from 1 to 2-inch lap at the end and one corrugation lap at the side. Nail side lap every 6 inches and end lap in every other corrugation with  $2\frac{1}{2}$ -inch corrugated, and in every third corrugation with  $1\frac{1}{4}$ -inch corrugated, driving the nails through the top of the corrugation. Care should be taken that the iron is kept a few inches from the ground. It is usually best to have the base-board 6 to 12 inches wide partially covered with plain iron for the bottom.

### HOW TO LAY THE "V" CRIMPED ROOFING

This material may be laid over sheathing, shingles, etc., or laid on directly to the rafters. Our Nos. 10 and 11 grades are 22 inches from center to center. It can be used on any roof having a pitch of more than 2 inches to the foot. The ends of the sheets can either be lapped from 1 to 3 inches or put together with lock joint. To make the lock joint, take a pair of tinner's snips and cut in  $\frac{5}{8}$ -inch near the crimp, and on each end of the sheet, turn one end under and one end over, and when placed together on the roof, put the joint down closer.

In laying the material, begin at the left hand corner of the eave and end of the building, and lay the sheets from the eave to the ridge, and nail through the crimp every 8 inches. At the end laps, use four nails to the lap.

### FOR PUTTING ON BRICK SIDING OVER SHEATHING

Take a level and chalk line and strike level of the building.

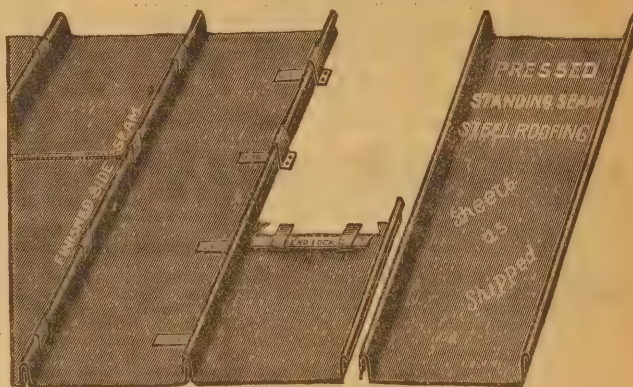
Place a sheet of siding at one corner of the building, allowing the end to extend 2 feet past the corner so that the cross grooves are immediately over the corner, the lower edge of the sheet resting on the chalk line.

Nail the sheet fast to the wall through the grooves sufficiently to hold it fast and to bring it down solid all the way along. Begin at the middle of the sheet to nail and work toward ends and sides, placing nails two or three bricks apart. Never nail through the brick.

Bend the projecting 2 feet around the corner (if it projects) with the hands or with a piece of board, using a mallet slightly to bring down any uneven places.

Lay around the building until you meet the commencement. Place the first sheet of the second tier over the first so as to break joints perfectly as in brick work, leaving the half grooves at the bottom of the sheet lap over the first and fit closely in the half groove at the top of the first sheet.

### STANDING SEAM ROOFING



"A" represents sheets as shipped. "B" explains method of laying and "C" shows finished seam.

Snip and then turn end locks with jointer by bending one end of sheet up and the other down. Commence laying at right hand corner and eave of building. Flatten right hand cap of first course and lay left hand cap to a chalk line. Let the bottom sheet project over eave and end of building 1 inch or more. Bend down projecting portion of sheet and nail to the end and eave of building, or if there are fire walls turn sheet up 4 to 6 inches, nail securely and counter-flash. Use two cleats on ends and one every 12 or 14 inches on sides. Continue laying the sheets until upper part of roof is reached. If a comb roof, allow 1 inch on one side and 2 inches on the opposite side to form a standing seam along the ridge.

Start next course (with the piece, if any, which was cut from the last sheet laid at comb) with flanges of sheets overlapping the first course, press down, turn the ends of cleats over, and then press the seam together with tongs; this finishes seam. Continue until roof is covered.

The comb is made by turning up one side 1 inch and the other side 2 inches, first flattening standing seam for 6 or 8 inches back from comb. Anchor the 1-inch side with cleats, and then turn the 2-inch side over the 1-inch, fold the cleat back over the top and press together with tongs. This makes standing seam along the comb. Hips are made in the same way after cutting to the right angle.

To lay Standing Seam Roofing you will require the following tools at prices noted:

Seamer, price	\$1.50
Snips, price	1.00
Jointer, price	.50
Total	\$3.00

We will furnish these tools and give you the privilege of returning same after you are through using them, provided you will pay freight or express charges on them, but all orders sent us for these tools must include the price. We will return the amount after we receive them back.



# Ornamental Metal Ceilings and Walls

The economy of steel ceiling is only one of its many advantages over wood and plaster; among others are its fire and dust-proof qualities. It eliminates all danger of falling plaster; it is cool in summer and warm in winter; it eliminates while plaster holds much of the dampness in a room. A fresh coat of paint and a little tinting changes the whole appearance of a room. It is impossible for us to give an exact price on this material on account of the many different shaped rooms in which it is to be used; however, the following prices will apply in most cases.

Price based  
on a room

15x20

\$4.00 per sq. ft.  
(of 100 sq. ft.).

20x40

\$3.90 per sq. ft.

25x60

\$3.80 per sq. ft.

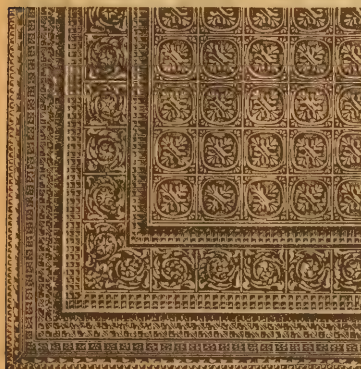
Above price  
is for ceiling  
with border,  
cornice,  
miters, nails,  
etc.

If ceiling  
is furnished  
without  
cornice and  
mitres, we  
can quote  
much lower  
prices.



This cut  
shows a ceiling  
complete  
as applied.  
Other de-  
signs shown  
below.

Send for  
our special  
roofing cata-  
logue in  
which we  
show other  
designs and  
give full  
directions for  
applying  
ceilings.



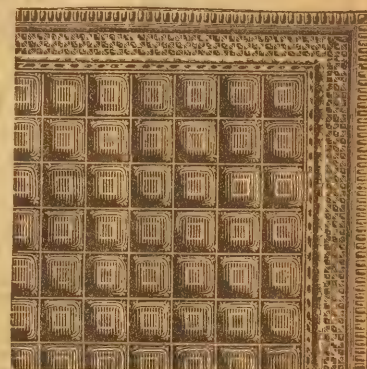
Metal Ceiling Design No. 8265.

PRICE ON  
CEILING  
PLATES  
ONLY  
WITHOUT  
BORDER  
AND  
CORNICE  
\$2.90 TO  
\$3.40 PER  
SQUARE.



Wall Design No. 1157.

SEND  
US  
DIA-  
GRAM  
OF  
YOUR  
ROOM  
FOR  
NET  
DELIV-  
ERED  
PRICE



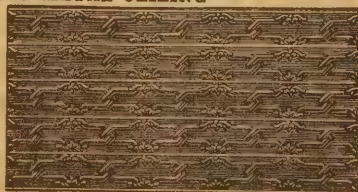
Metal Ceiling Design No. 8047.

## ORNAMENTAL METAL CEILING

This is a very attractive pattern and is easily put on; comes in one size sheets only. Size: width, 24 inches; length, 96 inches; made with dustproof beaded lap joints, which makes a neat, workmanlike job and can be applied by any one. No special tools required. The use of this ceiling will greatly improve the appearance of your store room and enable you to rent it to better advantage.

We furnish the ceiling painted with one coat red paint. You can finish it in any color desired. If you desire a border strip, we can furnish a 6-inch strip of the same pattern to break the ceiling and wall joint, which makes a very much better appearing job. Border is not furnished nor included in price quoted in the ceiling, but is charged for extra. (Shipped direct from factory in Central Ohio.)

No. 8045. Price per 100 square feet. \$2.35  
No. 8046. 6-inch. Border Strip. Price per running foot. .05



Showing Ceiling No. 8045.

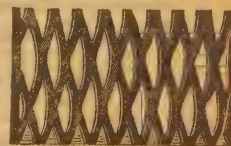


Showing Border  
No. 8046.

Above we show  
6-inch Border Strip  
which we can fur-  
nish with ceiling de-  
sign 8045. By using  
this you can give  
your room a finished  
appearance.

## EXPANDED METAL LATH

For use in fireproof buildings or any place where wood lath is used. Contraction and expansion caused by moisture are directly responsible for plaster cracking. This is entirely overcome by the use of Metal Lath. It is also used extensively for concrete reinforcing. Comes in bundles containing 20 square yards.



No.	Size	Plain	Galvanized
No. 1112.	27 gauge	11½¢ per sq. yd.	21½¢
No. 1113.	26 "	13¢	23¢
No. 1114.	25 "	14¢	24¢
No. 1115.	24 "	15½¢	25½¢

For painted add 4¢ per sq. yd.



# RAWHIDE RUBBER ROOFING.

**RAWHIDE  
RUBBER ROOFING  
IS  
FIRE, HAIL AND  
WEATHERPROOF.  
NOT AFFECTED  
BY HEAT OR COLD.  
CAN BE SAFELY  
USED IN ANY  
CLIMATE.**



**MADE IN  
ONE, TWO  
AND THREE PLIES  
GUARANTEED  
FOR SIX, NINE  
AND TWELVE YEARS.  
RECOMMENDED  
BY  
FIRE  
UNDERWRITERS.**

**YOU DO NOT TAKE A CHANCE IF YOU BUY RAWHIDE RUBBER ROOFING.**

There is a reason and it is not a trade secret why rawhide roofings are superior to all others. You are entitled and we want you to know just how rawhide roofing is made and why it will outlast all others. All Prepared Roofings are made on a wool felt base, which should be manufactured from woolen rags, but unfortunately felt can be mixed with paper and the cost reduced to the extent of enabling the unscrupulous manufacturer putting out an inferior roofing that to all superficial appearance is as good as honestly made roofing. Such felt will not take as much saturation as an absolutely pure wool felt and lacks the long fiber that gives it wear, resisting qualities and toughness that is so necessary to the life of roofing.

**"RAWHIDE ROOFING IS AS TOUGH AS ITS NAME"**

**Because It is Made of Pure Wool Felt and Saturated with Pure Asphalt.**

Pure asphalt saturation is absolutely necessary to make a strictly high grade lasting roofing. It is here that manufacturers have another chance to lower the grade, and you will only know it when your roof shows early signs of wear and proves generally unsatisfactory. Do not condemn Prepared Roofing on account of having had an experience of this kind. If you have never used prepared roofing or are skeptical, don't pay for experience—it is not necessary. We safeguard your interests. You cannot go wrong if you buy rawhide roofing. It is guaranteed to be saturated with pure Asphalt.

Rawhide Roofing contains absolutely no tar, oil or any other substitutes for asphalt. Tar cracks in cold weather and melts under the heat of the summer sun. Oil quickly evaporates, leaving the roofing dry and brittle. Therefore, it is bound to buckle and crack. There is no satisfactory substitute for Asphalt.

We control the entire output of Rawhide Roofing and keep close watch to see that not an ounce of inferior material is used. Every car of felt and asphalt is put under the most rigid test and is rejected if found in any way inferior to our standard which means, one hundred per cent pure.

**We Buy, Pay For and Accept Only the Best Material, That is Why  
You Get the Best Roofing Possible to Produce When  
You Order Our Rawhide Roofing.**

Why we are able to supply a better roofing at a lower price than you can possibly buy elsewhere: Our ability to dispose of immense quantities makes it possible to negotiate very favorable contracts. All manufactured lines have their seasons. Our output is assured and our capital is large, enabling us to contract for material sufficient for the entire year, when the market is low and the manufacturer needs both money and business to keep his factory running. There is another and bigger advantage in being able to contract in this manner, and that is, the factories not being crowded with orders, more care is taken in the manufacture of material and insures a uniform run and properly seasoned roofing. In addition, enables us to make prompt shipments.

The appearance of the surface of Our Rawhide Rubber Roofing is like rubber. This surface is made by a heavy coat of strictly pure Asphalt being applied to the saturated wool felt and passed between heavy hot rolls under a great pressure, the surface being exactly the same on both sides.

You can save money by buying your roofing from us. We can convince you that our Rawhide Roofings are the best and that we charge less than other dealers are asking for roofing that is not nearly as good.

The cost of laying Rawhide Roofing is a very small item. You will not require special tools. In fact, a knife and a hammer are the only tools required.

Rawhide Rubber Roofing can be laid over shingles and put on flat or pitched roofs.

Each roll contains 108 square feet, sufficient to cover one square, including laps.

We Furnish Free large head nails and sufficient Asphalt Cement for laps packed securely in each roll of our Rawhide Rubber Roofing.

Send for our special roofing catalogue and samples, free for the asking. The samples will give you an opportunity to compare the appearance and toughness of Rawhide Roofing with others. You will then be convinced of the truth of our statements. If you like the samples, the roofing will please you more.

You need our special roofing catalogue if you are interested in roofing. This catalogue is handsomely gotten up, describing Metal and Prepared Roofings, Artistic Metal Ceilings, Metal Sidings, Building Paper, Eaves Trough, Conductor Pipe, Valleys, Ventilators, Roof Paints, etc., giving full directions for laying roofing of all kinds.

We guarantee that every roll of Rawhide Rubber Roofing is made on an all wool felt base of the highest grade that is saturated and surfaced with pure asphalt and does not contain coal tar. If laid in accordance with our simple directions we will replace without cost to you any Rawhide Rubber Roofing that may prove defective within the following terms of years:

**1-Ply Rawhide Rubber Roofing, Six Years. 2-Ply Rawhide Rubber Roofing, Nine Years. 3-Ply Rawhide Rubber Roofing, Twelve Years.**

We do not impose any impossible conditions. All that is required is that it be laid smoothly and properly nailed and cemented at the laps. Anyone can do this. Our guarantee does not cover any roofing that becomes torn or is blown off by the wind.

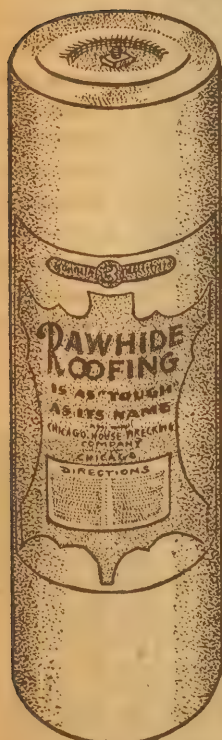
Rawhide Roofing will outlast our guarantee by many years. With proper care Rawhide Rubber Roofing will last longer than any other rubber surfaced roofing now on the market.

Prices quoted are f. o. b. Chicago. On request we will be pleased to quote prices, freight prepaid, to your shipping point.

## RAWHIDE RUBBER ROOFING.

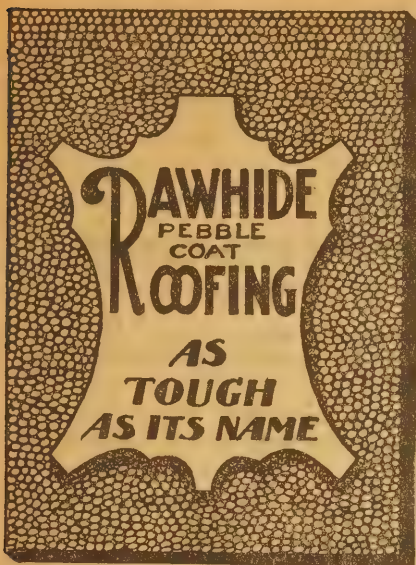
Complete with Nails and Asphalt Cement, put up in rolls containing 108 Square Feet, sufficient to lay One Square (100 Square Feet).

No. 13-A-50.	1-Ply.	Weight, 35 pounds.	Price per roll, \$1.20
No. 13-A-51.	2-Ply.	Weight, 45 pounds.	Price per roll, 1.45
No. 13-A-52.	3-Ply.	Weight, 55 pounds.	Price per roll, 1.75





# RAWHIDE PEBBLE COAT ROOFING



Never Requires Painting or  
Recoating

Not Affected by the Heat or Cold and  
will not Blister or Crack.

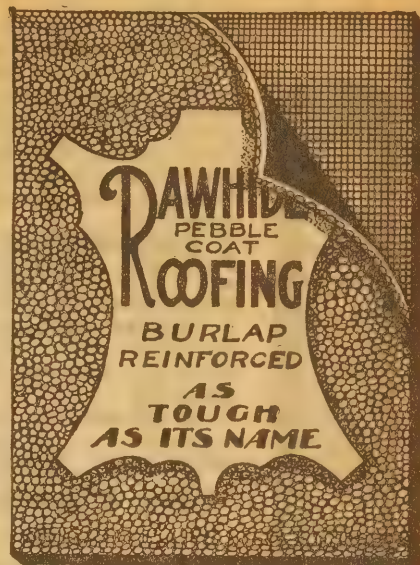
ABSOLUTELY FIRE PROOF

Made from Strictly All-Wool Felt and  
Saturated with Pure Asphalt

GUARANTEED FOR TEN AND  
FIFTEEN YEARS

A BROAD STATEMENT BUT  
A TRUE ONE

RAWHIDE PEBBLE COAT ROOFING  
IS MUCH MORE SERVICEABLE than any  
other style of Gravel, Grit, Flint or other  
kinds of rough surfaced felt roofings on the  
market.



RAWHIDE PEBBLE COAT ROOFING IS SURFACED WITH LAKE MICHIGAN PEBBLES. Washed, screened and of uniform size. Other roofing, surfaced with crushed Granite, Grit, Marble, Slate, rough irregular size Gravel, cannot commence to stand the wear nearly as well as RAWHIDE PEBBLE COAT ROOFING.

## The Reason Why

BECAUSE THE PEBBLE COAT SURFACING IS NOT MADE OF CRUSHED MATERIAL, having sharp edges that cut into the felt and thereby weaken the fiber. So that you will fully understand the superiority of RAWHIDE PEBBLE COAT ROOFING, it is necessary for you to know how roof surfacing is applied, which is as follows: The saturated felt is run through a special heavy hot coating asphalt. The surfacing is then put on and the roofing passes through heavy rolls under great pressure, imbedding the surfacing into the asphalt. Your own good judgment will tell you if surfacing has sharp edges (and all crushed material has) that it is bound to cut through the asphalt into the felt. In addition to this, it is impossible to crush it to a uniform size. Therefore, the surface is not smooth or evenly covered. The finer particles do not adhere as well to the asphalt and soon wear off and the result is an unsatisfactory roof.

RAWHIDE PEBBLE COAT ROOFING IS DIFFERENT. The gravel is sifted and only the small pebbles of uniform size are used and firmly imbedded in a heavy surface coat of asphalt and positively do not cut into the felt.

SEND FOR OUR FREE SPECIAL ROOFING CATALOGUE AND SAMPLES. Compare our RAWHIDE PEBBLE COAT ROOFING with any other surfaced roofing. Note the smoothness of the surface. Try its toughness. In fact, compare it from any angle and we confidently believe that your verdict will be in favor of RAWHIDE PEBBLE COAT ROOFING in preference to any surfaced roofing on the market.

RAWHIDE PEBBLE COAT IS MADE WITH AND WITHOUT BURLAP REINFORCEMENT.

OUR THREE LAYER RAWHIDE PEBBLE COAT ROOFING IS GUARANTEED FOR TEN YEARS and is built in three separate layers, the first being extra weight pure wool felt saturated with pure asphalt; the second a layer of asphalt; the third being the pebble coat finish.

OUR FIVE LAYER RAWHIDE PEBBLE COAT ROOFING, reinforced with Scotch Burlap, is guaranteed for fifteen years and is built in five separate layers, the first being extra weight pure wool felt saturated with pure asphalt; the second a layer of asphalt; the third a reinforcement of Scotch Burlap; the fourth a layer of asphalt; the fifth being the pebble coat finish.

## Fire, Hail, Wind, Rain and Weather Proof and does not Affect the Water

**EASY TO LAY.** You can lay RAWHIDE PEBBLE COAT ROOFING as easily as any other prepared roofing. It is made with an improved smooth edge, two and a half inches wide, without the pebble coat surface. When laid, it has a solid pebble coat surface; the seams can scarcely be seen.

**PUT UP IN ROLLS CONTAINING 108 SQUARE FEET, SUFFICIENT TO COVER ONE SQUARE (100 SQUARE FEET) INCLUDING LAPS.**

**WE FURNISH FREE** large head nails and sufficient asphalt cement for laps, packed securely in each roll of RAWHIDE PEBBLE COAT ROOFING.

**WE GUARANTEE THE MATERIALS THAT ENTER IN THE CONSTRUCTION OF RAWHIDE PEBBLE COAT ROOFING TO BE THE SAME HIGH GRADE AS USED IN OUR RAWHIDE RUBBER ROOFING AND NOT TO CONTAIN COAL TAR.** If laid in accordance with our simple directions, we will replace without cost to you, any RAWHIDE PEBBLE COAT ROOFING that may prove defective within the following term of years:

3 Layer RAWHIDE PEBBLE COAT ROOFING, 10 Years

5 Layer RAWHIDE PEBBLE COAT ROOFING, 15 Years

**WE DO NOT IMPOSE ANY IMPOSSIBLE CONDITIONS.** All that is required is that it be laid smoothly and properly nailed and cemented at laps. Any one can do this. Our guarantee does not cover any roofing that becomes torn or is blown off by the wind.

**RAWHIDE PEBBLE COAT ROOFING WILL LONG OUTLAST OUR GUARANTEE.** With proper care it should easily last from fifteen to twenty years.

**PRICES QUOTED ARE F. O. B. CHICAGO. ON REQUEST WE WILL BE PLEASED TO QUOTE PRICES FREIGHT PREPAID TO YOUR SHIPPING POINT.**

## Rawhide Pebble Coat Roofing

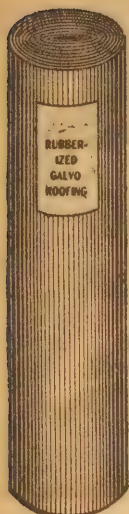
COMPLETE WITH NAILS AND ASPHALT CEMENT. Put up in rolls containing 108 Square Feet, sufficient to lay one Square (100 Square Feet).

No. 13-A-53.	3 Layer.	Without Burlap Reinforcement, Weight 60 pounds, Price Per Roll.....	\$1.75
No. 13-A-54.	5 Layer.	With Scotch Burlap Reinforcement, Weight 80 pounds, Price Per Roll.....	2.90



# Rubberized Galvo Roofing

Our Prices on Rubberized Galvo Roofing are Freight Prepaid to Any Point Within 500 Miles of Chicago.



OUR RUBBERIZED GALVO ROOFING IS OF SUPERIOR QUALITY, is manufactured from the best grade of wool felt saturated with pure asphalt and positively does not contain coal tar. It is purchased by us direct from the manufacturers and is a regular grade made by them with the exception that instead of a continuous piece, as rubber roofing ordinarily comes, it is put up in two to three pieces to the roll, commonly termed "Mill Ends". This does not in any sense injure from the standpoint of service. The fact that it is not made in one piece does not lessen its wearing qualities or make any difference in its appearance. We guarantee that it is a strictly high grade roofing. Owing to confidential reasons we cannot tell you the name of the manufacturers as it would lessen the sales of their regular brands. The quality of this roofing is far superior to most of the rubber surface roofing that is being generally offered. This gives you an opportunity of buying otherwise perfect roofing at prices that mean a big saving to you.

RUBBERIZED GALVO ROOFING HAS A RUBBER SURFACE ON BOTH SIDES AND IS PLIABLE AND WEAR RESISTING. It is weather, lightning and fire proof and can be used in any climate, as it is not affected by heat or cold, acids, alkalies or gases and will not taint rain water. We guarantee that it will give lasting service and will wear as long as the building stands, providing you give it ordinary care.

IT DOES NOT REQUIRE PAINTING OR COATING, when applied, it toughens and hardens with age. We recommend that after it has been on the roof for two or three years that it be covered with our **Protecto Asphalt Roofing Paint**, which will protect the roof and cause it to last for many years. When the surface shows signs of wear it can be easily painted, making it as good as new.

IT IS ADAPTED FOR ROOFS OF ANY KIND AND CAN BE PUT ON OVER SHINGLES. There is no contraction or expansion and it will not crack or blister. No special tools are required to lay Rubberized Galvo Roofing. All that is necessary is a hammer and a pocket knife.

## We Furnish Large Head Nails (No Caps Needed) and Cement, Sufficient for Laps.

It is put up in one and two square rolls, sufficient to lay one and two hundred feet respectively, including laps. A liberal allowance is made for the laps. It can be laid from left to right or from eave to comb, whichever is easier to apply. We recommend that it be put on opposite to the run of the sheathing.

**OUR PRICES ON RUBBERIZED GALVO ROOFING ARE FREIGHT PREPAID TO ANY POINT WITHIN 500 MILES FROM CHICAGO ONLY WHEN SHIPPING WEIGHT IS ONE HUNDRED POUNDS OR MORE**

- |  |               |
|--|---------------|
| <b>No. 13-A-55. ONE-HALF-PLY.</b> Adapted for roofing out-buildings, sheds, temporary buildings and other structures where an inexpensive roofing is desired. We also recommend it for siding and lining purposes. Weighs 25 pounds per square. Furnished complete with nails and sufficient cement for the laps. Price..... | <b>\$0.75</b> |
| <b>No. 13-A-56. ONE-PLY.</b> Suitable for barns, sheds and dwellings. Weighs 35 pounds per square. Furnished complete with nails and sufficient cement for the laps. Price.....  | <b>\$1.00</b> |
| <b>No. 13-A-57. TWO-PLY.</b> For dwellings, factories, warehouses and for all general roofing purposes. Weighs 45 pounds per square. Furnished complete with nails and sufficient cement for the laps. Price.....  | <b>\$1.25</b> |
| <b>No. 13-A-58. THREE-PLY.</b> Used on any kind of building where a heavy, durable roofing is required. Weighs 55 pounds per square. Furnished complete with nails and sufficient cement for the laps. Price.....  | <b>\$1.50</b> |



## "Eagle" Prepared Tarred Felt Roofing

This is a grade of roofing that has been the standard for years past but has become less used on account of the increased demand for **Asphalt Roofing**. Eagle Brand made of high grade wool felt saturated with distilled coal tar, and is without any question the highest grade, most practical and lowest priced tarred prepared roofing on the market.

This roofing is put up in rolls containing 108 square feet, sufficient to cover one square. While this is a very satisfactory roofing, we do not recommend it for a permanent, lasting job. Where a high grade roof is required, we recommend our **Raw Hide Rubber or Pebble Coat Roofing**.

PRICES ARE F. O. B. CHICAGO AND DO NOT INCLUDE NAILS, CAPS OR COATING.

- |  |               |
|--|---------------|
| <b>No. 13-A-7. TWO-PLY.</b> Weight, 45 lbs. Price, per roll.....   | <b>\$0.60</b> |
| <b>No. 13-A-8. THREE-PLY.</b> Weight, 68 lbs. Price, per roll..... | <b>.87</b>    |

## Special Bargain in Rubber Surface Roofing

We offer 5,000 squares of **Rubber Surface Roofing** on which the surface coating has not been evenly applied and is spotted and rough in appearance. This is caused in the process of manufacture by the rolls not being sufficiently hot, preventing the asphalt from being evenly applied or owing to imperfect operation of the surfacing machine. There is also contained in this lot, roofing that has ragged edges but is otherwise in serviceable condition. While this does not injure the wearing qualities of the roofing, it does affect its appearance; in fact, its appearance is against it. It will, however, give good service as the material used in its manufacture is high grade, being made of all wool felt and saturated with asphalt, and contains absolutely no coal tar. We recommend it for those who are looking for a low priced roofing. It is sold without any guarantee, with the distinct understanding that it is very rough in appearance as compared with perfect surface roofing, there being too much asphalt surfacing in spots, but that it will give satisfactory service. If you want a low priced roofing and are not particular as to appearance, you will find this lot a big bargain and from the standpoint of service it will be satisfactory to you. Most of it is in continuous length rolls; some of it, however, is mill ends—that is, rolls containing several pieces. There is, however, a liberal allowance made for laps and each roll of roofing that we sell to you will lay ONE SQUARE (100 square feet).

WE OFFER THIS LOT SUBJECT TO PRIOR SALE.

PRICES QUOTED ARE F. O. B. CHICAGO AND DO NOT INCLUDE FREIGHT CHARGES.

- |  |               |
|--|---------------|
| <b>No. 13-A-59. ONE-PLY.</b> Weighs about 35 pounds per square, complete with nails and cement. Price.....   | <b>\$0.50</b> |
| <b>No. 13-A-60. TWO-PLY.</b> Weighs about 45 pounds per square, complete with nails and cement. Price.....   | <b>0.75</b>   |
| <b>No. 13-A-61. THREE-PLY.</b> Weighs about 55 pounds per square, complete with nails and cement. Price..... | <b>1.00</b>   |



	50 gal.	25 gal.	5 gal.	
	bbl.	bbl.	can	1 gal.
	per gal.	per gal.	per gal.	can
No. 13-A-39. Maroon	\$0.52	\$0.57	\$0.62	\$0.67
No. 13-A-40. Green	.52	.57	.62	.67
No. 13-A-41. Brown	.52	.57	.62	.67







**GALVANIZED BOX GUTTERS.**

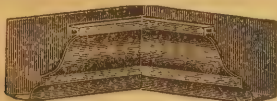
Style J.

Made of No. 28 gauge galvanized steel and furnished in 10 foot lengths, both ends open.

Price per

	Girth	Size	Depth	Foot
No. 4-A-1830.	18 inch.	6 inch.	5 1/2 inch.	.11c
No. 4-A-1831.	20 inch.	7 inch.	6 1/2 inch.	.13c
No. 4-A-1832.	24 inch.	8 inch.	8 inch.	.15c

Extra for any of the above sizes one end closed, 35c

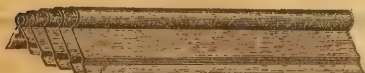
**GALVANIZED BOX GUTTER MITERS.**

No. 4-A-1833.	For 18-inch girth.	Price each, 45c
No. 4-A-1834.	For 20-inch girth.	Price each, 53c
No. 4-A-1835.	For 24-inch girth.	Price each, 60c

**STRAP HANGERS FOR BOX GUTTERS.**

Be sure to mention girth.

No. 4-A-1866.	Price each.....2c
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**GALVANIZED RIDGE ROLL.**  
Plain Apron.

A neat water proof cap for the ridge of roofs. Is made in 10 foot lengths and can be used on shingles or any other kind of roofing. We do not furnish cut lengths.

	Size of Roll Inches	Apron Inches	Girth Inches	Price Per Ft.
No. 4-A-41.	1 1/2	2	8	3 1/2c
No. 4-A-42.	2	3	10	4c
No. 4-A-43.	3	3 1/2	14	5 1/2c

**GALVANIZED RIDGE ROLL.**  
With Corrugated Apron.

Made to be used on Corrugated Iron Roofs. Size of corrugations 1 1/2 and 2 1/2 inches. In ordering be sure and state width of corrugation. Comes in 10 foot lengths. We do not furnish cut lengths.

	Size of Roll Inches	Width of Apron Inches	Girth Inches	Price Per Ft.
No. 4-A-44.	2	2 1/2	10	6c
No. 4-A-45.	3	3 1/2	14	7c

**GALVANIZED ROOF CRESTING.**

This Cresting we can furnish, either 8 or 10 inches high. The part over the roll is made of double thickness metal and is therefore very durable as well as ornamental. This Cresting comes in 5 and 10 foot lengths.

No. 4-A-46.	Price per ft. 8 inches high....	7 1/2c
No. 4-A-47.	Price per ft. 10 inches high....	10c

**Wire Window Guards**

No. 4-A-1858. Made of heavy No. 12 gauge wire, 1 1/2 in. diamond mesh, frame made of 1/2 in. round bar steel, heavily painted. Shipped ready to apply.

Price for Guards, containing 6 square feet or more, per sq. ft., ..\$0.12

No. 4-A-1859. Guards of less than 6 sq. ft. each net.....\$0.75

**BLOCK FINIALS.**

No. 4-A-52. Used in connection with roofing cresting, and can also be used with the 1 1/2 and 2 inch Ridge Roll. Height is 10 1/2 inches.  
Price each..... 20c

**VALLEY TIN.**

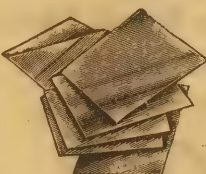
Made of High Grade Tin Plate in a continuous length, locked and soldered. Full lengths are 50 feet long. Will furnish any length desired. Painted one side.

	Width Inch	50 ft. Roll.	Price	Per Lineal Ft.
No. 4-A-1825.	14		\$1.75	4 1/2c
No. 4-A-1826.	20		2.35	6c
No. 4-A-1827.	28		3.40	8c

**GALVANIZED VALLEY.**

Made of No. 28 Gauge Galvanized Steel.

No. 4-A-1830.	14 inches wide. Put up in 25 and 50 ft. rolls.	
Price.....	Length of roll 25 feet.	\$1.20
No. 4-A-1831.	Length of roll 50 feet.	2.35
Price.....		
No. 4-A-1832.	Galvanized Valley, cut to desired length. Price per lineal foot.	6c

**TIN SHINGLES AND FLASHINGS.**

Made of roofing tin. Used for repairing old roofs and making tight joints around chimneys.

No. 4-A-64.	Size 5x7 inches.	
Price each.....		1c
Price per 100.....		70c
No. 4-A-65.	Size 7x10 inches.	
Price each.....		\$0.02
Price per 100.....		1.50

**TINNERS' SNIPS.**

Best quality. Hand forged Tinner's Snips, fully guaranteed.

No. 4-A-74.	2 1/2 inch cut. Price each....	75c
No. 4-A-75.	3 inch cut. Price, each....	85c

**TINNERS' SNIPS.**

Cast steel Tinner's Snips. Intended for light work, such as cutting stove pipe or other light sheet iron.

No. 4-A-76.	3 inch cut. Price each.....	20c
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**SHEET TIN.**

I. C. Roofing Plates. This is full weight, with coating evenly distributed. Prices subject to market changes.

No. 4-A-80.		
Size inches.....	14x28	
No. of sheets in box.....	112	
Weight per box.....	100 lbs.	
Price per box.....	\$4.50	
Price per sheet.....	.06	

No. 4-A-81.		
Size inches.....	20x20	
No. of sheets in box.....	112	
Weight per box.....	200 lbs.	
Price per box.....	\$9.00	
Price per sheet.....	.10	

**WIRE STALL GUARDS**

Made of heavy crimped steel wire, 2 1/2 in. diamond mesh with steel channel frame 1 in. wide, O.G. and oval metal top, screw holes drilled in bottom and are heavily painted. Weight about 40 lbs.

No. 4-A-1860.	Lgt. 6', ht. 25", ea.	\$2.47
No. 4-A-1861.	Lgt. 6 1/2', ht. 25", ea.	2.83
No. 4-A-1862.	Lgt. 7', ht. 25", ea.	3.12

**WROUGHT STEEL HAY RACKS**

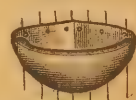
No. 4-A-1863.

Corner Hay Rack, made of cast iron; height, 28 in., projects 22 in. from corner.  
Price each...\$1.00



No. 4-A-1864.

Corner Hay Rack, made of heavy steel, height 3 ft., projects from corner 2 ft. Wt. 25 lbs.  
Price each...\$1.30

**FEED BOXES**

No. 4-A-1865.  
Corner Feed Boxes with roll flange which prevents waste of feed. Made of heavy cast iron. Size 16 in. on sides by 10 in. deep.  
Price each...\$1.20

**GALVANIZED ROOF VENTILATORS.**

Made of Heavy Galvanized Iron.



For removing smoke, dust, impure air from halls, churches, schools, factories, stables, etc.; prevents down draft and improves smoky chimneys.

No. 4-A-1836.	4-inch.....	\$0.60
No. 4-A-1837.	6-inch.....	1.15
No. 4-A-1838.	7-inch.....	1.37
No. 4-A-1839.	8-inch.....	1.56
No. 4-A-1840.	9-inch.....	1.75
No. 4-A-1841.	10-inch.....	1.93
No. 4-A-1842.	12-inch.....	2.25

**GALVANIZED HIPPED SKYLIGHT FRAMES.**

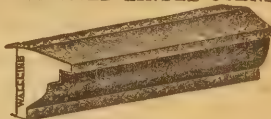
Prices are for skylights complete with glass and ventilators.

	Size from out to out of curb.	Price each.
No. 4-A-1843.	3x5 feet.....	\$ 8.40
No. 4-A-1844.	3x6 feet.....	10.00
No. 4-A-1845.	4x4 feet.....	9.00
No. 4-A-1846.	4x5 feet.....	11.00
No. 4-A-1847.	4x6 feet.....	11.75
No. 4-A-1848.	4x8 feet.....	14.00

Odd and larger sizes made up to order at the following prices:

20 square feet or less.....	56c per sq. foot
21 square feet or larger.....	49c per sq. foot

Measure base of skylight outside of curb.

**GALVANIZED LINTEL CORNICE**

Made of heavy galvanized iron, used for covering wood or iron lintels, making a neat finished job.

	Height	Projection	Girth	Per Foot
No. 4-A-1849.	4 1/2	3 1/2	12	\$0.06
No. 4-A-1850.	7	4 1/2	18	.08
No. 4-A-1851.	8	6	20	.09

**GALVANIZED CORNICE.**

Strongly made of heavy galvanized iron.

A Cornice adds 50% to the appearance of a building, and at the extremely low price at which we are offering a cornice you cannot afford to omit it from your building plans.

If desired we can furnish these cornices with raised block letters, for which there would be an additional charge. Advise us what you want and we will be glad to quote you prices. The prices quoted below are for the plain cornices, per running foot, and do not include the end blocks as shown in illustration. These are quoted below separately.

	Height	Projection	Per Foot
No. 4-A-1852.	16	10	\$0.55
No. 4-A-1853.	20	12	.68
No. 4-A-1854.	24	12	.77
No. 4-A-1855.	30	15	1.12

**GALVANIZED END BLOCKS.**

For Use with Cornice Above Described.

	Height, Inches.	Price.
No. 4-A-1856.	16 and 20.....	\$3.00
No. 4-A-1857.	24 and 30.....	3.25



# PREMIER READY MIXED HOUSE PAINT

**Guaranteed for 10 Years. Our Guarantee Protects You.**

The quality and durability of Premier Paints are unsurpassed. They are the product of over 25 years of successful and scientific paint making. Only the very best materials possible to procure are used and the finest and most expensive machinery is employed under the direct supervision of the foremost paint maker in the business today. Every shipment comes from freshly made stock thus insuring uniformity of color, greater covering capacity and absolute ease of application. The careful work and study of our paint experts and their personal supervision of each order have made our Premier House Paint the most durable, unfading and entirely satisfactory that can be produced. That's why we guarantee it so freely.

**WE GUARANTEE PREMIER HOUSE PAINTS FOR TEN YEARS. IF USED IN ACCORDANCE WITH OUR INSTRUCTIONS IT WILL NOT TURN CHALKY, PEEL, OR BLISTER. WE AGREE TO REPLACE, GALLON FOR GALLON WITHOUT COST TO YOU IF PREMIER PAINT FAILS TO GIVE SATISFACTION. YOU ARE TO BE THE JUDGE OF THIS.**

**CHICAGO HOUSE WRECKING CO.**

If you have any trouble estimating how much paint you require, send us the measurements of your building and we will tell you exactly how much paint you need and how much it will cost you.

Do not let any one convince you that it is necessary to pay a higher price for paint. They will not (because they cannot) guarantee their paint to give better satisfaction than our Premier Brand. We offer you the lowest priced paints which have the greatest actual value. Agreeable and non-fading colors, durability, ease of application and price, all covered by a binding guarantee which protects you. Our million dollars of capital stands back of every can.

**Directions for Use of Premier House Paints.**

Stir thoroughly before using. For first coat reduce the paint to the proportion of one quart of boiled linseed oil, to one gallon of paint. Brush out well and let dry before applying the second coat. For second coat apply the paint in its natural thickness brushing out well. If necessary thin with linseed oil.

Prepare the surface by giving all knotty or sappy parts a coat of orange shellac. Putty all nail holes, cracks, etc., between coats.

Remember the condition of the surface to be painted has much to do with the result. Never apply paint in cold or wet weather. The surface must be thoroughly dry and well seasoned before the paint is applied. Allow plenty of time between coats.

**List of Colors of Premier Ready Mixed House Paints.**

No. 206	French Gray	No. 229	Maroon
No. 207	Lavender	No. 230	Bronze
No. 208	Straw	No. 231	Willow Green
No. 209	Pea Green	No. 232	Drab
No. 210	Light Drab	No. 233	Olive
No. 211	Canary	No. 234	Red
No. 212	Lemon Stone	No. 235	Brown
No. 213	Pear	No. 236	French Yellow
No. 214	Beaver	No. 237	Lead
No. 215	Pink	No. 240	Light Stone
No. 218	Nile Green	No. 242	Dark Gray
No. 219	Olive Drab	No. 245	Yellow Stone
No. 220	Green	No. 246	Green Tint
No. 221	Fawn	No. 247	Light Slate
No. 222	Pure Blue	No. 248	Sky Blue
No. 223	Buff	No. 251	Colonial Yellow
No. 224	Terra Cotta	No. 255	Azure Blue
No. 225	Apple Green		Outside White
No. 226	Leather Brown		Inside White
No. 227	Pure Gray		Black
No. 228	Light Blue		

## Premier Ready Mixed Paint Guaranteed for Ten Years at the Following Prices.



**Premier Paint is Manufactured from the Best Quality Materials, and is Carefully Ground and Mixed. Will not Flake, Crack or Peel off Like Ordinary Paint.**

No.	4-A-147.	Per Gal.
50 gal. bbls.		\$0.85
25 gal. ½ bbls.		.88
5 gal. cans		.95
1 gal. cans		.98
½ gal. cans each		.53
Qt. cans each		.28

No.	1 Gal.	½ Gals.	Qts.
237 Myrtle Green	\$1.30	\$0.70	\$0.40
239 Vermilion	1.80	.95	.50
241 Green	1.30	.70	.40
252 Carmine	1.80	.95	.50

Always remember Premier Ready Mixed House Paint is for both inside and outside use.

If you are going to paint your house, barn or fence or on the inside of your house, you will save money and get the very finest goods offered for sale by buying from us. Our position as the largest handlers of building material in the world enables us to test the goods under every conceivable condition. These tests have always proven so satisfactory that we have made this broad guarantee. We guarantee it for 10 years. You to be the judge.

It is economy to paint, not costly. The cost of painting a house or barn or fence is so little as compared to the value of the protection against rot and decay caused by the elements and to the length of time it prolongs the life of your building, that you can not afford to let your house, barn or fence stand unpainted.

### HOW TO FIGURE HOW MUCH PAINT YOU NEED.

One gallon will cover 250 to 300 sq. ft. two coats. It will cover 250 feet (2 coats) on new wood that has not been painted and 300 (2 coats) on repainting wood in fair condition.

For example—should your building measure 40 feet long, 20 feet wide and have an average height of 25 feet.

Front and Rear 20 ft. ea	40 feet
Two Sides 40 ft. ea	80 "

	120 "
Multiply by average height	25
	250 ) 3000 ( 12 gal.
	250

Divide by 250 covering of one gallon, 2 coats and we get twelve gallons, amount of paint necessary to paint a house of the above size, two coats. We sell Premier Brand Paint in 5 gallon cans and in gallon cans. For above building you would require two 5 gallon cans and two 1 gallon cans. It costs 95 cents in 5 gallon cans and 98 cents in 1 gallon cans, so that the total cost of painting the above building would be \$11.46. For painting barns or fences use our Barn and Roof Paint and figure the same way.



## PREMIER BARN AND ROOF MINERAL PAINT

Guaranteed for Ten Years.

OUR MILLION DOLLAR CAPITAL IS YOUR  
SAFEGUARD.

"We guarantee Premier Barn and Roof Mineral Paint for Ten Years. If used according to directions, it will not chalk, peel or blister. We agree to replace gallon for gallon without cost to you if Premier Barn and Roof Mineral Paint fails to give satisfaction. You are to be the judge of this."



These paints are a combination of the finest mineral pigments ground and re-ground with linseed and preservative oils. They are like our house paints, the result of years of experience of a corps of expert paint makers.

As a paint for Barns, Structural Iron and Bridges, it is second to none. It is the best mineral paint for sale at any price or in any place, and preserves and beautifies your property at little cost.

Fences, Crib, Tin Roofs, Fence Posts, Elevators, Structural Iron and Bridges, it is second to none. It is the best mineral paint for sale at any price or in any place, and preserves and beautifies your property at little cost.

For the little cost involved you cannot afford to let your roof, fence or other exposed property rot or decay for lack of painting.

At 45 cents a gal. in 50 gal. bbls. you can buy our Premier Roof and Barn Mineral Paint, and insure your property against decay and waste, while at the same time beautify it.

We offer our Premier Barn and Roof Mineral Paint in the following shades and prices:

No.	No.	No.
800 Drab	802 Brown	804 Indian Red
801 Stone Gray	803 Light Yellow	805 Maroon
1 gal. cans, per gal.	\$0.50 25 gal. bbl., per gal.	\$0.50
5 gal. cans, per gal.		.5550 gal. bbl., per gal. .45

## CHEAPEST PAINT SOLD—37 CENTS A GALLON FOR OUR CHALLENGE BARN PAINT.

While we do not guarantee our Challenge Barn Paint, it is nevertheless, a very fair piece of goods for fences, cribs and general rough work. There is no paint sold anywhere at so low a price or any paint as good for anywhere near the same price.

No. 4-A-148. Made only in Red, Brown and Black.

50 gal. bbls., per gallon	.....\$0.37
25 gal. ½ bbls., per gallon	......42
5 gal. buckets, per gallon	......47
1 gal. cans, per gallon	......52

The above prices illustrate how by our wonderful merchandising facilities we can offer goods at less money than you can buy them elsewhere. These goods are not our best paint but are made merely to meet the inferior grades of paint offered by others at higher prices.

To insure a good lasting job, however, buy our guaranteed Premier Barn Paint. Guaranteed for Ten Years. Premier Barn and Roof Paint is the highest quality mineral paint made.

## PREMIER READY MIXED FLOOR PAINT MAKES YOUR OLD FLOORS LOOK LIKE NEW.



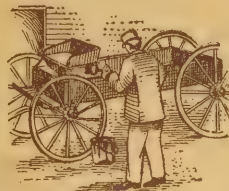
No. 4-A-150. This is the best wearing finish floor paint made. It dries with a high lustre and retains it after any amount of foot wear and scrubbing. It is very easy to apply, any child could do it. Merely clean the floor free from dust, dirt and grease, allow 24 hours after washing and then apply paint. Two coats on old work and three coats on a new floor

will insure a very fine job. Always brush the paint out well.

No.	No.	No.
610 Light Yellow	630 Indian Red	650 Drab
620 Dark Yellow	640 Lead Color	660 Maroon
1 gal. cans, each	.....\$0.95	Qt. cans, each .....\$0.27
½ gal. cans, each	......52	

## PREMIER WAGON AND IMPLEMENT PAINT.

One-half gallon at 80 cents will paint almost any wagon and make it look like new.



No. 4-A-151. It is surprising how people will allow valuable wagons and machinery to decay and rust away because they have neglected to spend a few cents and a little time in painting them. Our wagon paint is the finest paint that can possibly be made as it works equally well

over wood or iron, making a coating which will withstand all kinds of weather. Outside of greatly improving the appearance of your wagons and implements it is real economy to paint them.

You cannot put a rainy day to better use than by painting your various pieces of farm machinery and wagons with our Premier Wagon Paint. Made in the following shades: Red, Green, Blue, Black, Yellow and Vermilion.

1 gal. can. ....	\$1.50	Quart can. ....	\$0.45
½ gal. can. ....	.80	Pint can. ....	.25

## PREMIER CARRIAGE AND BUGGY PAINT.

No. 4-A-152. A combination of the finest, most durable, non-fading pigments, carefully ground into the best carriage varnish. This paint is more durable and possesses a smoother, more elastic surface than any other carriage paint made. This is due to the high grade of varnish we use in its preparation and also to the specially constructed machinery we have in operation combining the color with the varnish.

Two quarts of Carriage or Buggy Paint will make your buggy look like new, at an expense of \$1.20. If you wish a different colored running gear from the body, order 1 quart of each color.

Directions—Remove wheels and put body on barrels or other supports. Sand paper the body and wheels and dust carefully. Give hubs a coat of shellac to prevent grease working through. Apply one coat of paint with a varnish brush and allow to dry 24 hours. Putty imperfections, if any with a mixture of paint and putty and allow it to dry thoroughly. Sand paper putty spots to level them and apply last coat.

Made in the following shades:

No.	No.	No.
926 Red	956 Green	976 Vermilion
936 Black	966 Wine	986 Blue
946 Yellow		

## Prices:

1 gal. cans	.....\$1.90
Quarts	......60
Pints	......32

## PREMIER VARNISH STAIN.

Stains and Varnishes in One Operation.

No. 4-A-155. The above goods are recommended for use over the surface already varnished or painted, such as old furniture or varnished or painted woodwork. It is necessary in order to obtain the best results, to use a stain of a similar shade as the old finish. You cannot finish a Mahogany chair Light Oak by applying Light Oak Varnish Stain. If a change of color is desired we would recommend our Premier Gloss Lacquer. By using the Ground Color and Premier Gloss Lacquer wood finish, this change can be made.

Prices on above colors:

Cherry	Mahogany	Rose Wood
Light Oak	Walnut	Antique Oak
Dark Oak		

1 gallon cans, each	.....\$1.40
½ gallon cans, each	......77
¼ quart cans, each	......43
1 pint cans, each	......24
½ pint cans, each	......17

## OIL STAIN.

A Perfect Imitation of Natural Wood.

No. 4-A-156. For staining interior wood-work or any work not finished. Dries with a flat finish. One or two coats of varnish over it will produce a fine, glossy surface.

Made in the following colors:

Cherry	Mahogany	Rose Wood
Light Oak	Walnut	Antique
Dark Oak		

1 gallon cans, each	\$1.40	1 pint cans, each	\$0.24
½ gallon cans, each	.77	½ pint cans, each	\$0.17
¼ quart cans, each	.43		

## PREMIER VARNISHES. THE WORLD'S BEST

"We guarantee our Premier Varnishes to give satisfactory service in every particular where directions are followed, or we will gladly refund you the money value of same, if in your opinion, the goods are not right."

## No. 1 EXTRA LIGHT HARD OIL FINISH.

No. 4-A-176. An exceptional varnish of light color of great elasticity. For finishing all kinds of interior woodwork. Preserves the natural grain and color of the wood and dries within 12 hours, with an excellent gloss.

5 gallon cans, each	.....\$6.75
1 gallon cans, each	.....1.40
½ gallon cans, each	......75
1 quart cans, each	......45
1 pint cans, each	......30

## No. 1 FURNITURE VARNISH.

No. 4-A-177. An extra fine varnish which is used by high grade furniture manufacturers, dries tough and hard, with a high gloss over night.

1 gallon cans, each	.....\$1.10
½ gallon cans, each	......60
1 quart cans, each	......35
1 pint cans, each	......25

## COACH VARNISH.

No. 4-A-178. A good grade interior varnish for all kinds of woodwork. Dries glossy, with a lasting finish.

1 gallon cans, each	.....\$1.10
½ gallon cans, each	......60
1 quart cans, each	......35
1 pint cans, each	......25

## PREMIER EXTRA COACH VARNISH.

No. 4-A-179. Specially adapted for finishing highest class interior woodwork that wants either a gloss or rubbed finish as this varnish may be rubbed. Dries hard in about 48 hours.

5 gallon cans, each	.....\$6.75
1 gallon cans, each	.....1.40

## PREMIER WHITE DAMAR VARNISH.

No. 4-A-617. Made from imported Batavia gum. For finishing over any enameled surfaces, white or ivory, without producing discoloration. It may also be used with excellent satisfaction on fine wall paper hangings or on delicately tinted painted walls. Is of good body and dries well.

5 gallon cans, each	.....\$7.00
1 gallon cans, each	.....1.50
½ gallon cans, each	......85
1 quart cans, each	......47
1 pint cans, each	......25

## PREMIER ELASTIC CLEAR VARNISH.

No. 4-A-622. Used for finishing gear parts and wheels. Is free working, brilliant and durable. It sets in six to eight hours, and dries hard in thirty-six to forty eight hours. This varnish may also be used for body finishing when drying, dispatch being an important consideration. This is a superior all around varnish for carriage finishing.

1 gallon cans, each	.....\$2.85
½ gallon cans, each	.....1.55
1 quart cans, each	......80
1 pint cans, each	......45

## PREMIER ONE-COAT COACH.

No. 4-A-623. A splendid varnish for general repair work. On carriages, when work is simply dull or lustreless, otherwise in good condition, one coat of this varnish on the entire vehicle will produce a finish practically equal to a new job. It is light in color, elastic, brilliant and durable. Dries free from dust in about twelve hours and hardens to admit the use of the vehicle in about three days.

1 gallon cans, each	.....\$2.50
½ gallon cans, each	.....1.35
1 quart cans, each	......72
1 pint cans, each	......35

## PREMIER WEARING FLOOR VARNISH.

No. 4-A-180. The Best Floor Varnish on the market to-day. It is unequalled for floors or oilcloth. Will not turn white from washing or show footmarks. It is easily applied and gives a tough elastic and elegant finish.

5 gallon cans, each	.....\$5.00
1 gallon cans, each	.....1.70
½ gallon cans, each	......95
1 quart cans, each	......53
1 pint cans, each	......29

## PREMIER OUTSIDE SPAR.

No. 4-A-181. For finishing all kinds of exposed surfaces such as outside doors, vestibules and store fronts. It is also recommended for finishing inside blinds and the woodwork in bathrooms and on sinks where a very elastic varnish is required.

5 gallon cans, each	.....\$10.75
1 gallon cans, each	.....2.25
½ gallon cans, each	.....1.25
1 quart cans, each	......65
1 pint cans, each	......35



**FINE CARRIAGE VARNISHES.****Premier Wearing Body Varnish.**

No. 4-A-621. A brilliant, durable, and elastic varnish for finishing carriage and buggy bodies. It works and flows with surprising freedom and may be used on the largest surfaces, such as carriage bodies, with the greatest safety and satisfaction. It is very pale and will not darken or injure the lightest shades of body color. It dries free from dust in twelve to sixteen hours, and hardens properly in from two to three days.

1 gallon cans, each	\$3.00
1 gallon cans, each	1.60
1 quart cans, each	.80
1 pint cans, each	.45

**PREMIER WAGON AND IMPLEMENT VARNISH.**

No. 4-A-624. For agricultural implements, wagons, etc. A good varnish for general outside work; has a good body, a fine luster and is light in color and wears well. Dries in about ten to fourteen hours.

1 gallon cans, each	\$1.45
1 gallon cans, each	.83
1 quart cans, each	.46
1 pint cans, each	.25

**PREMIER OIL SHELLAC.**

No. 4-A-620. This is a clear first coater or filler for new woods that have not been previously finished. It has a good body and produces a substantial and safe surface or base coat. It dries to sandpaper in six to eight hours.

5 gallon cans, each	\$5.90
1 gallon cans, each	1.25
1 gallon cans, each	.70
1 quart cans, each	.38
1 pint cans, each	.20

**DENATURED ALCOHOL ORANGE SHELLAC.****Orange Shellac.****No. 4-A-625.**

1 gallon cans, each	\$2.00
1 gallon cans, each	1.05
1 quart cans, each	.58
1 pint cans, each	.31

**DENATURED ALCOHOL WHITE SHELLAC.****White Shellac.****No. 4-A-191.**

1 gallon cans, each	\$2.10
1 gallon cans, each	1.10
1 quart cans, each	.58
1 pint cans, each	.32

**PREMIER COACH JAPAN.**

No. 4-A-192. A reliable japan for binding and drying colors and rough stuff.

1 gallon cans, each	\$1.35
1 gallon cans, each	.78
1 quart cans, each	.44
1 pint cans, each	.25

**PREMIER TURPENTINE JAPAN DRYER.**

No. 4-A-619. A first-class house painters' japan, dependable in all kinds of weather. A good binder and a sure and quick dryer. It contains no acids and will not cause the paint with which it is mixed to burn, blister, crack, chalk or peel. It mixes readily with oil and does not detract from the elasticity of the paint.

5 gallon cans, each	\$3.50
1 gallon cans, each	.80
1 gallon cans, each	.50
1 quart cans, each	.30
1 pint cans, each	.18

**PAINT AND VARNISH REMOVER.**

No. 4-A-182. Softens Paint or Varnish so that it can be removed easily with a piece of cloth or putty knife. It removes every vestige of paint from the surface so that it looks like new. One pint will remove the varnish from one or two table tops. One-half gallon will remove the paint from a 12"x12' floor.

1 gallon cans, each	\$2.00
1 gallon cans, each	1.10
1 quart cans, each	.60
1 pint cans, each	.35

**PREMIER BLACK ASPHALTUM.**

No. 4-A-618. For finishing all kinds of castings, smokestacks, stove pipes, fenders, coal hods, iron work of agricultural implements, etc. It produces a jet black, brilliant finish and absolutely prevents rust or corrosion. It is heavy in body and quick drying.

5 gallon cans, each	\$2.50
1 gallon cans, each	.60
1 gallon cans, each	.40
1 quart cans, each	.22
1 pint cans, each	.13

**PREMIER LIQUID WOOD FILLER.**

No. 4-A-175. For filling or first coating all kinds of close grained natural woods, such as pine, poplar, etc., that have not been previously finished. Thoroughly seals up the wood pores and prevents suction or absorption of moisture. This material is transparent and does not need to be rubbed off or sandpapered before applying the varnish coats. It does not sink away like varnish, but dries on the surface, thus equalling for work of this nature two coats of varnish. A coat or two of varnish

applied over this material produces a really remarkable finish.

Prices:	
5 gallon cans, each	\$5.15
1 gallon cans, each	1.10
1 gallon cans, each	.62
1 quart cans, each	.33

**CRACK AND CREVICE FILLER.**

No. 4-A-171. A superior elastic preparation for filling cracks in floors or woodwork before painting. Will not shrink.

1 lb. cans, each	\$0.14
5 lb. cans, each	.60

**PREMIER PASTE WOOD FILLER.**

No. 4-A-172. All opened grained woods such as Oak, Ash, etc., should be filled in order to obtain a perfect varnish. Our paste filler is better than any other as it completely fills the pores, making an impervious surface over which to varnish.

Made in three shades:		
Natural	Light Oak	Dark Oak
1 lb. cans, each		\$0.09
5 lb. cans, each		.40
25 lb. cans, each		1.75

**SPECIAL DRY COLORS.**

We carry two Special Dry Colors in stock. No. 4-A-167. Wagon Red is a very brilliant color and almost as light as Vermilion when mixed with linseed oil. Just the thing for wagons and all kinds of farm implements.

Price, per lb. \$0.10

No. 4-A-168. Screen Green is a pure green color, very suitable for window screens and screen doors, and is one of the prettiest greens in the dry colors ever put on the market.

Per lb. \$0.09

**PREMIER CARRIAGE TOP DRESSING.**

No. 4-A-169. This is a waterproof preservative which is guaranteed not to injure the finest leather or rubber. Will improve the appearance of your buggy at very slight cost.

1 quart cans each	\$0.50
1 pint cans each	.30
1 pint cans each	.21

**BEST LINSEED OIL PUTTY.**

No. 4-A-184. Will not crumble or crack. 100lb tubs. \$0.02; 25lb tins, per lb \$0.03 Less quantities, per pound. \$0.04

**DRY COLORS.**

No. 4-A-166. We list below only the very best quality of colors. These colors are used for tinting calcimine, making fillers, and other purposes. We do not recommend mixing them with Linseed Oil for painting purposes as they are too coarse to obtain good results.

	Weight of bbl.	In bbl. Lots, per lb.	Less quantity per lb.
Golden Wash Ochre.	400.	\$0.01	\$0.02
Rochelle Ochre	400.	.01	.02
English Golden Ochre	400.	.10	.13
French Ochre	400.	.01	.02
Italian Buff, Light	500.	.01	.02
American Venetian Red	350.	.01	.01
English Venetian Red	336.	.01	.02
Snow White Wood Filler	400.	.01	.01
Silver White Wood Filler	350.	.01	.02
White Mineral Primer	550.	.01	.02
Spanish Brown	350.	.01	.02
Chrome Yellow			.15
Chrome Green, No. 1 best.		.07	.09
Chrome Green, Dresden		.10	.13
Prussian Blue			.50
Ultramarine Blue, best			.12
Burnt and Raw Umber.	350.	.05	.06
Burnt and Raw Sienna.	350.	.05	.06
Dark Lead, 25 lb. kegs			.10
Dark Red Iron Paint	400.	.01	.01
Germantown Lamp Black	50.	.10	.11

**PREMIER COLORS IN OIL.**

No. 4-A-165. The strongest, most durable, unfading colors obtainable. For use in tinting or may be used in present state with addition of proper thinners.

	1 lb. cans	5 lb. cans
Drop Black	\$0.15	\$0.70
Ivory Black	.17	.80
Coach Black	.16	.75
Prussian Blue	.36	1.65
Ultramarine Blue	.17	.80
Sienna, Raw or Burnt	.12	.53
Turkey Umber, Raw or Burnt	.12	.53
Vandyke Brown	.12	.53
Chrome Green	.14	.65
Scarlet Vermilion	.18	.86
Tuscan Red	.16	.75
Venetian Red	.08	.35
Indian Red	.14	.65
Chrome Yellow	.18	.85
Yellow Ochre	.08	.35
Graining Colors (Antique, Mahogany, Cherry, Walnut).	.12	.65

Pure French Ochre in Oil, 12 1/2 and 25 lb. cans.	\$0.04
English Venetian Red in Oil, 12 1/2 and 25 lb. can	.04
White Ochre in Oil, 12 1/2 and 25 lb. can.	.04

**ZINC IN OIL.****No. 4-A-162.**

French Zinc in 12 1/2 and 25 lb. cans, per lb.	\$0.10
American Zinc in 12 1/2 and 25 lb. cans, per lb.	.08

**PLASTER PARIS.****No. 4-A-163.**

Per bbl. (about 200 lbs.)	\$2.35
Less than bbl., per lb.	.02 1/2

**WHITING.****No. 4-A-164.**

Whiting in bbls. (about 350 lbs.), per lb.	\$0.01
Less than bbl., per lb.	.02 1/2

**PORCELAIN BATHTUB ENAMEL.****In White Only.**

No. 4-A-157. An ordinary iron tub can be made to look like the finest porcelain tub by the use of our Porcelain Bath-Tub Enamel.

1 quart cans, ea.	\$0.75
1 pint cans, each	.45
1/2 pint cans, each	.25

**PREMIER GLOSS ENAMEL.****For Fine Interior Enamel Work.**

No. 4-A-154. A high grade interior finish on wood or plaster walls. Especially for use on walls where you wish to get the highest possible lustre—the real enamel finish.

Premier Gloss Enamel is most easy to apply. It is particularly adapted for walls and ceilings in bed-rooms, bath-rooms and kitchens, making an impervious enamel finish. It is also used extensively for work on bedsteads, exposed pipes and other metal surfaces.

Made in the following large assortment of shades, giving opportunity for many harmonious combinations:

Pearl	Nile Green	Lilac
Light Slate	Pea Green	Pink
Cream	Light Blue	Lavender
Apple Green	Dark Blue	Carmine

Prices for above colors:	
1 gallon cans each	\$1.45
1 quart cans each	.45
1/2 gallon cans each	.78
1 pint cans each	.25

**GOLD PAINT.**

No. 4-A-626. For gilding everything and anything, fancy baskets, picture frames, toys, chandeliers, iron beds, mantels, cistern pumps, gas pipes, stoungs, iron shelf brackets, metal ornaments, stationery and all kinds of paper work. Put up in neat wooden box, brush included.

Small size. Price each.	\$0.10
Large size. Price each.	.20

**GOLD RADIATOR ENAMEL.**

No. 4-A-627. For radiators or other steam or hot water heated surfaces. The brightest gold finish may be obtained with this material. It dries very hard with a smooth finish, and will not discolor. Box containing 1 oz. bottle Bronzing Liquid, 1 oz. bottle Gold Bronze, 1 cup for mixing, 1 Camel Hair Brush. Price per box. \$0.25

**PREMIER ALUMINUM ENAMEL OR SILVER PAINT.**

No. 4-A-628. The brightest and most brilliant Aluminum Enamel made. The dry powder and liquid come separately in a neat, compact can, and are mixed when ready to use. It is unlike the ready mixed article, in that the finish is bright and smooth, almost like a nickel plate. Old scratched picture frames can be reclaimed and made to look like new with one coat of this material. It produces a rich aluminum or silver finish on picture frames, room moulding, chairs, iron beds, tables, baskets, bicycles, statues, sewing machines, curtain poles, and trimmings, baby carriages, trays, mail boxes, umbrella holders, chandeliers and gas fixtures, kitchen and bathroom fixtures, iron fences, water and gas pipes.

1 pint cans, each	\$0.49
1/2 pint cans, each	.31
1 pint cans, each	.20

**BRONZE POWDERS.**

No. 4-A-176. No. 1 Gold Bronze Powder. A good quality for general use. When ordering be sure to mention shade desired. Light, medium, or rich gold.

1 ounce package.	\$0.06
Per pound.	.75

No. 4-A-177. No. 2 Gold Bronze Powder. Finest quality. Will go farther than any other. When ordering be sure to mention shade desired. Light, medium, or rich gold.

1 ounce package.	\$0.08
Per pound.	.95

**ALUMINUM OR SILVER POWDER.****(Chemically Pure.)**

No. 4-A-178. Fine quality for general use. Nothing better on the market.

1 ounce package.	\$0.18
Per pound.	1.15



**BRONZING LIQUIDS.**

For mixing with Bronze Powders.

**BANANA LIQUID.**

No. 4-A-180.

$\frac{1}{2}$ pint cans, each.	.....\$0.18
1 pint cans, each.	......30
1 quart cans, each.	......48

**MIXING LIQUID.**

No. 4-A-181.

$\frac{1}{2}$ pint cans, each.	.....\$0.13
1 pint cans, each.	......19
1 quart cans, each.	......30

**ALUMINUM LIQUID.**

No. 4-A-182.

$\frac{1}{2}$ pint cans, each.	.....\$0.18
1 pint cans, each.	......30
1 quart cans, each.	......48

**PREMIER GLOSS LACQUER**

The Housekeeper's Friend.

**No. 4-A-153.** Changes old, scratched, marred pieces of furniture and unsightly floors into new, brilliant and beautiful objects. It is so easily applied that the most inexperienced person can use it and make your old furniture and woodwork look like new at an expense of but a few cents. Best of all, this beautiful finish can be applied by any housewife, and the resulting work will be just as satisfactory as if an expert wood-finisher had done it. If you have anywhere in your house, from basement to garret, any chair, table, chiffonier, bedstead, book-case or desk, or any floors or woodwork, base-boards or doors which you would like to renew in the natural wood colors, all you need is a small amount of Premier Gloss Lacquer. A few minutes time and a small can of Premier Gloss Lacquer will change any article in the house to a bright, spic span, new looking object.

**Directions.**—Over hardwood fill with Premier Paste Wood Filler and then apply Premier Gloss Lacquer like ordinary varnish. Dark Oak or Walnut will conceal all discolorations in an old floor. On new soft wood or old painted floors it is best to apply one coat of ground color and then two of Premier Gloss Lacquer. Always allow 24 hours between coats. Apply with flat varnish brush.

Made in the following shades:

Light Oak	Flat White	Rose Wood
Dark Oak	Ground Color	Royal Red
Cherry	Gloss Black	Walnut
Moss Green	Flat Black	Clear
Gloss White	Mahogany	

**Prices:**

$\frac{1}{2}$ pint can, per can	.....\$0.20
1 pint can, per can	......32
1 quart can, per can	......57
1 gal. can, per can	.....1.90
5 gal. can, per can	.....9.00

**PREMIER LINOLEUM FINISH.**

No. 4-A-170.

Do not let your floor oilcloth or linoleum wear out when you can for a few cents preserve it and give a more lasting and finer finish than it had when new. Put this material over your linoleum and it gives it a smooth, hard, elastic finish that will bend as the linoleum does and will not crack. It overcomes the uneven wearing quality of linoleum which has always before been objectionable.

It keeps your floor bright and beautiful and largely increases the life of the linoleum or oilcloth. Not affected by hot or cold water. One coat put on at night will be all that is needed. Dries to walk on the next morning. One quart will cover 175 square feet.

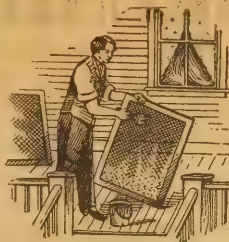
Prices.

Prices.

1 gallon cans, each	\$2.00	1 quart cans, each	\$0.60
$\frac{1}{2}$ gallon cans, each	1.10	1 pint cans, each	.36

**PREMIER SCREEN ENAMEL.**

Ready for Use.



**No. 4-A-158.** Does not clog the meshes of the screen and gives a lasting, brilliant finish with the application of one coat. Easy to apply.

Made in Black, Green and Dark Green.  
Pints .....\$0.24  
 $\frac{1}{2}$  pints .....14

**PREMIER STOVE PIPE ENAMEL.**

No. 4-A-159.

The best coating for stove-pipes and heated iron surfaces. Wears longer and has a smoother, more elastic finish. It is a combination of high grade Black, with the best baking Varnish obtainable.

1 gallon cans, each	.....\$1.25
$\frac{1}{2}$ gallon cans, each	......70
1 pint cans, each	......20
$\frac{1}{2}$ pint cans, each	......12

**STRICTLY PURE WHITE LEADS.**

We carry in stock Red Seal, Southern, Shipman, Collier or Eckstein, which we offer at market prices.

**MORTON WHITE LEAD IN OIL.**

**No. 4-A-160.** It is very fine and white, but is not intended for white finishing coats, because it does not contain the dense capacity of the other brands we catalogue. It can be used with excellent satisfactory in colored paints, and is good priming or first coat lead. Morton Lead cannot be duplicated in quality, and price by any competitor.

100 lb. keg	.....\$4.00
50 lb. keg	.....2.00
25 lb. keg	.....1.00
12 $\frac{1}{2}$ lb. keg	......60

**ECLIPSE WHITE LEAD IN OIL.**

**No. 4-A-161.** The reputation of this white lead is world wide, and we can recommend it to be a very good and durable piece of goods, exceedingly white and finely ground. It is a serviceable white lead for all painting purposes. It mixes easily and spreads smoothly.

100 lb. keg	.....\$5.00
50 lb. keg	.....2.50
25 lb. keg	.....1.25
12 $\frac{1}{2}$ lb. keg	......65

**PREMIER CREOSOTE SHINGLE STAIN.**

**No. 4-A-615.** This stain is not the cheap mixture which is sometimes offered by other manufacturers (which will not do the work required of it), but is a high grade, scientifically made piece of goods. We have used in this paint Creosote preservative, which is acknowledged to be the best wood preserver known at the present time. The colors are durable, penetrating, and will not fade and act as a waterproof coating on the shingles making them immune from decay. It is just as important to preserve the roof as any other portion of the house, yet a large percentage of people who build, while they paint the body of their house will not give the roof a coat of paint, for preservative purposes. The shingles can be dipped in the stain or they may be painted with a brush after being laid. When applied with a brush, one gallon will cover about 150 square feet of surface, one coat, or 100 square feet, two coats. For dipping it will require 2 $\frac{1}{2}$  to 3 gallons to dip 1,000 shingles. The shingles need be dipped only two-thirds of its length.

Made in the following shades.

Brown	.....Red	.....Moss Green
Maroon	.....Black	.....Bronze Green
Walnut	.....Cedar	.....Light Yellow
Light Green		

At the following prices:

50 gallon barrels, per gallon	.....\$0.65
25 gallon $\frac{1}{2}$ barrels, per gallon	......70
5 gallon cans, per gallon	......75
1 gallon cans, per gallon	......80

**PROTECTO ASPHALT PAINT.**

**No. 4-A-174.** An unequalled preservative paint for roofs and exposed surfaces. After much investigation we are able to offer in our Protecto paint, what we believe is undoubtedly the best paint on the market for preserving metal and roofs, fences, tanks, agricultural implements, in fact all exposed surfaces, from the ravages of rust and decay.

Protecto Paint is made of the highest grade of asphalt, combined by special process with mineral oils. No coal tar, rosin or other cheap materials enter into its composition.

When applied to a metal surface one gallon covers 300 square feet, giving a glossy black finish, which is not affected by the weather and which will not crack or peel. For use around factories it is unequalled on smoke stacks, boilers, pipes and machinery. It will not taint the water, and can

be used for painting the inside and outside of cylinders to prevent seepage.

1 gallon cans, each	.....\$0.53
2 gallon cans, each	......89
3 gallon cans, each	.....1.18
5 gallon cans, each	.....1.90
10 gallon cans, each	.....3.55
25 gallon bbl	.....6.55
50 gallon bbl	.....12.25

**DURO JET COATING.**

**No. 4-A-175.** A black protective coating. Manufactured by special process from a refined pitch, fluxed with mineral oil.

One gallon covers about 100 square feet. The material dries in 24 hours.

Duro jet is especially valuable for preserving felt roofs or surfaces exposed to water or dampness. It can be used with good result on any exposed surface. In this paint we have the best low price black coating on the market.

1 gallon cans, each	.....\$0.30
2 gallon cans, each	......54
5 gallon cans, each	......95
10 gallon cans, each	.....1.75
25 gallon bbl	.....2.90
50 gallon bbl	.....4.95

**PREMIER COLD WATER KALSOMINE.**

For Interior Use.

**No. 4-A-185.** Premier Cold Water Kalsomine is a dry powder specially prepared, that when mixed with cold water is ready to apply to the walls. Follow directions on package for preparing kalsomine. You will obtain a smooth, velvet-like finish, and it will work so easily that the most inexperienced person can do a perfect job. For re-kalsomining, sponge off the walls with hot water and you will remove all dust and dirt along with the kalsomine, so that your new coat will give you a clean, sanitary wall. If you have painted walls, apply the kalsomine directly over them, as the paint acts as a good under-coat.

Two packages of Premier Cold Water Kalsomine are enough to do an ordinary room.

**Directions.**—Follow directions on package for preparing the Kalsomine. Walls that are new, or that have never been kalsomined or painted, should first be sized with Gloss Oil or a cheap Varnish, thinned with benzine or turpentine. Allow six hours for sizing to dry before applying Kalsomine. If the room has been kalsomined, wash off the old kalsomine with warm water and sponge until the walls are thoroughly clean. Apply with a good bristle kalsomine brush.

Made in the following shades:

White	613 Azure Blue	614 Yellow
601 Cream	610 Blue Gray	617 Buff
606 Light Tan	605 Pink	618 Turquoise
		Blue
612 Light Green	607 Lavender	604 Green Tint
622 Rose	602 Pale Blue	620 Deep Blue
608 Drab	603 Light Pink	630 Deep Green
Price per package, above tints		.....\$3.26
White per package		......24

**COLD WATER PAINT.**

**No. 4-A-616.** In dry powder form, requiring the addition of cold water only to make it ready for use. Will stand great weather exposure and will not rub, scale or crack.

The fire retardant qualities of Cold Water Paint are universally recognized and make it a first-class paint for factories, shops, elevators and other buildings where a rough but satisfactory job is required.

Owing to the fact that Cold Water Paint is mixed with water, it is not satisfactory on iron or tin surfaces, but it can be used on stone, brick and wood.

One pound of Cold Water Paint will cover from 25 to 75 square feet, according to the surface.

Smooth painted boards, 60 to 80 square feet.  
Smooth unpainted boards, 50 to 75 square feet.  
Rough unpainted boards, 25 to 40 square feet.  
Soft unpainted brick, 25 to 40 square feet.  
Hard unfinished brick, 40 to 65 square feet.  
Stone, 25 to 40 square feet.

**Directions.**—To prepare for use, add one measure of water to two of the powder and stir until free from lumps, then add sufficient water to make the paint the consistency of thick cream. It will then spread easily under the brush. Can should be taken not to mix too thin. Apply with kalsomine or whitewash brush.

	350	100	50	25	5
	lb.	lb.	lb.	lb.	lb.
	Bbls.	Drum.	Kegs.	Kegs.	Pkgs.
White	.....\$0.05	\$0.06	\$0.06	\$0.06	\$0.07
Green	......11	.11	.12	.12	.13
All colors except Green	......08	.08	.09	.09	.10



# PAINT BRUSHES

We are offering a line of well selected brushes, all of which are made in the best possible manner and are guaranteed fully in every respect, when used for the purposes for which they are offered, and in this connection we think it is advisable to offer a few suggestions regarding the care of brushes.

The very best as well as the cheapest brush can be ruined, at least partially so, if they are not properly cared for. Paint and varnish, as well as calcimine and whitewash brushes should not be allowed to stand on the ends of bristles over night, but should always be cleaned thoroughly before quitting work and carefully hung up: paint and varnish brushes in oil or varnish, and calcimine and whitewash to dry.

Should you find a brush that has become loose from shrinkage, take a tablespoonful or so of water, open the brush and pour the water into the center. This will swell the parts and make the brush as firm as when first made.

New brushes when first put in work are apt to shed any loose

bristles that have not been fastened when made. Care is taken to remove these loose bristles before shipment; however, it is impossible that every brush be free from loose bristles, and we therefore recommend that before starting on a job that the brush be dipped in the paint or varnish and be drawn across a rough board or surface several times. This will generally free the brush from any loose bristles.

Calcimine and whitewash brushes must never be put in newly slaked lime or acids as it will destroy the bristles. If the mixture is too hot to put your hand in it will burn the bristles and thereby destroy the brush.

## FITCH FLOWING VARNISH BRUSHES.

No. 4-A-196. Extra quality, single thick, tin ferrules.

Size, Inches	Price Each
1	\$0.16
1½	.24
2	.32
2½	.40
3	.48

## DOUBLE THICK FITCH FLOWING VARNISH BRUSHES.

No. 4-A-197. Chisel Point, extra quality, suitable for fine work.

Size inches	1	1½	2	2½	3
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Price each	\$0.19	.28	.36	.45	.51
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## BADGER HAIR FLOWING VARNISH BRUSHES.

No. 4-A-198. Suitable for fine furniture, picture frames, pianos and carriages. Single thick, chisel point, tin ferrules.

Size inches	Price each
1	\$0.20
1½	.30
2	.40
2½	.55
3	.60

## XX FLAT VARNISH BRUSH.

No. 4-A-199. Chisel Point, nickle band, fine selected black Chinese bristles, double thick. An excellent mechanic's sash or trimming brush. It is also a good family brush.

Size inches	1	1½	2	2½	3
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Price each	\$0.10	.18	.23	.33	.40
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## OVAL VARNISH BRUSHES.

No. 4-A-200. Suitable for varnishing floors, woodwork and other surfaces of considerable area.

All pure black Chinese bristles, chisel pointed, nickel plated ferrule, carefully made and an excellent family or painter's brush. For varnish or paint. This brush will give excellent satisfaction.

Sizes	1-0	2-0	3-0	4-0	5-0	6-0
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Length in.	2½	2½	2½	3	3½	3½
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Price each	\$0.25	.35	.40	.45	.50	.62
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## SASH TOOLS.

No. 4-A-201. Used for painting window sash, mouldings, and for work in close places where a small brush is required. Selected black Chinese bristles, oval, chisel pointed brush. Very elastic and a fine wearing tool.

Size inches	2	4	6	8	10
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Length inches	1½	2	2½	3	3½
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Price each	\$0.07	.09	.12	.16	.21
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## EXTRA FRENCH SASH TOOLS.

No. 4-A-202. All fine white bristles. Wire bound.

Diam. inches	½	1	1½
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Price each	\$0.03	.04	.06
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## UTILITY BRUSH.

No. 4-A-203. Suitable for varnishing, bronzing, enameling or lacquering.

Price each	\$0.10
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## MOTTLING BRUSHES.



No. 4-A-204. Made of genuine camel's hair. Used for carriage work in putting on color. Also for applying gold, silver, aluminum and every other thin paint. These brushes are not suitable for varnishes.

Short handles, tin ferrules, glue set, not to be used in water.

Size inches	½	1	1½	2	2½	3
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Price each	\$0.13	.14	.17	.23	.36	.39
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## EXTRA THICK CAMEL'S HAIR MOTTLING OR COLOR BRUSH.

No. 4-A-205.

Size inches	Price Each
½	\$0.20
1	.21
1½	.31
2	.45
2½	.59
3	.79

## ROUND PAINT BRUSHES.



No. 4-A-206. This is a good brush for general work. Is wire bound.

white Russian bristles outside, and mixed center.

Size inches	1	2	3	4	5	6
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Length bristles, inches	3	3½	3½	3½	4½	4½
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Price each	\$0.16	.18	.21	.24	.30	.37
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No. 4-A-207. Round paint brush, all fine white selected Russian bristles, wire bound. Regular painters' brush.

Sizes	1-0	2-0	3-0	4-0	5-0	6-0
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Length bristles, inches	3½	4	4½	4½	4½	5
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Price, each	\$0.52	.60	.70	.98	\$1.15	\$1.40
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## WALL BRUSHES.



No. 4-A-208. Used for painting walls, floors or other surfaces of large area.

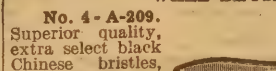
All pure Chinese bristles, metal bound, extra long

Width inches	2½	3	3½	4	4½
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Length inches	2½	2½	2½	2½	2½
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Price each	\$0.10	.13	.16	.21	.32
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## WALL BRUSH.

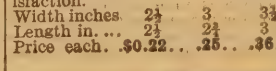


No. 4-A-209. Superior quality, extra select black Chinese bristles, brass bound. A brush that will give excellent satisfaction.

Width inches	2½	3	3½	4	4½	5
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Length in.	2½	2½	2½	2½	2½	2½
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Price each	\$0.22	.25	.36	.45	.60	.72
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No. 4-A-210. Extra long bristle wall brush, brass bound, extra select black Chinese bristles. A brush that is very popular with the painters.

Width inches	3	3½	4	4½	5
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Length inches	3½	3½	4½	4½	4½
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Price each	\$0.45	.60	.83	\$1.10	\$1.35
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## "PERFECTION" WALL BRUSH.

No. 4-A-211. All white, pure Russian bristle, extra long and heavy. Brass bound and is a regular mechanic's brush.

Sizes	6	7	8	9
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Width inches	3	3½	4	4½
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Length bristles	3½	4	4½	4½
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Price each	\$0.57	.84	\$1.15	1.47
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## STUCCO WALL PAINT BRUSHES.

No. 4-A-212. All pure white Russian bristles. Leather bound. A high grade painter's brush warranted in every way.

Width inches	3	3½	4	4½
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Length bristles inches	4½	5	5½	5½
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Price each	\$1.00	1.10	1.40	1.55
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## No. 4-A-213. Stucco Wall Paint Brush.

Long extra quality. Black Chinese bristles. Fully guaranteed.

Size No.	25	30	35	40
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Width inches	3	3½	4	4½
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Length bristles, inches	4	4½	4½	4½
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Price each	\$0.70	.90	\$1.10	1.25
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## WALL STIPPLING BRUSHES.

No. 4-A-214. Used for obscuring brush marks and to produce rough effect on the painted walls. Made of the highest grade gray bristles.

Size	3½x8
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Length bristles inches	3
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Price each	\$1.50
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## CALCIMINE BRUSHES.

No. 4-A-215. Guaranteed all white bristle. Metal bound. An excellent brush for ordinary work.

Width inches	6	7	8
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Length bristles in	3½	3½	3½
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Price each	\$0.63	.75	.95
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## "PERFECTION" CALCIMINE BRUSH.

No. 4-A-216. All white Russian bristles. Brass bound. A high grade family brush.

Width inches	6	7	8
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Length bristles in	3½	4½	4½
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Price each	\$1.00	1.40	1.50
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## EXTRA LONG BRISTLE WALL BRUSH.

Specially selected all white Russian bristle calcimine brush. Brass bound. Regular painter's brush and guaranteed fully.

Width inches	7	8
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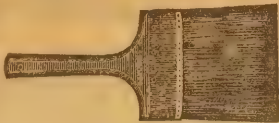
Length bristles inches	4½	4½
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Price each	\$1.65	2.10
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## NEW YORK STANDARD CALCIMINE BRUSH.

No. 4-A-218. Galvanized iron bound. Gray Russian bristle middle and yellow Okata bristle outside. These brushes are extra well constructed and are practically indestructible. Width inches 7 8  
Length bristles inches 5 5 1/2  
Price each \$2.95 3.35



## GERMAN CALCIMINE BRUSH.

No. 4-A-219. This is an excellent brush and can be used for Cold Water Paint. This style of brush is used by the largest painting contractors throughout the country. It will hold more calcimine and do better work than other styles of calcimine brushes. Is made of an extra quality Russian bristle. Set with special brushmakers pitch and is fully guaranteed. Size of block inches 2 2 1/2  
Length bristles inches 4 4 1/2  
Price each \$2.95



## WHITE WASH BRUSHES.

No. 4-A-220. This is a very satisfactory brush for rough white washing and common work. Metal bound, white bristle outside with soft Tampico center. Size No. 7 8  
Width inches 7 8  
Length bristles inches 2 3  
Price each \$0.25 0.30



## WHITEWASH BRUSH.

No. 4-A-221. Brass bound, all white bristles. An excellent family whitewash and calcimine brush. For general purposes this brush cannot be excelled. Width inches 7 8 9  
Length bristles inches 3 3 1/2 4  
Price each \$0.85 1.35 1.50



No. 4-A-222. Extra quality whitewash brush, leather bound. All white pure Russian bristles. Very heavy and stocky. Just the brush for mechanics. Guaranteed to be the best whitewash brush on the market. Width inches 9 9  
Length bristles inches 4 5  
Price each \$2.55 3.40



## GLUE BRUSHES.

No. 4-A-223. Made with iron handles to prevent shrinkage. Brass ferrule and selected white bristles. Warranted to stand hot glue. Size 1 2 3  
Length bristles inches 2 2 1/2 2 3/4  
Price each \$0.20 0.27 0.42



## PAINTER'S ROUND DUSTER.

No. 4-A-224. Gray mixed bristles. Set with pitch extra deep in block, and warranted to hold. Length of bristles 4 1/2 inches. Price each \$0.40



## PAINTER'S FLAT DUSTER.

No. 4-A-225. A flat duster is preferred by many painters, inasmuch as it will not roll off on to the ground. Made with black bristles set deep into the block. Width 4 inches. Price each \$0.57



## SAND PAPER.

No. 4-A-188. This is the very best quality of sand paper manufactured. The sand is sharp flint sand applied to paper by special process. The glue is manufactured especially for the purpose. We guarantee it to be the best wearing sand paper manufactured. The No. 00 is the finest and No. 3 the coarsest. Put up 24 sheets to the quire, one number only. Assorted quires take the sheet price.



Nos. 00 0 1 1 1/2 2 3  
Price per 24 sheets \$0.16 0.17 0.18 0.20 0.22 0.24 0.26  
Six sheets for \$0.05 0.05 0.05 0.07 0.07 0.08 0.08

## XXX QUALITY EMERY CLOTH.

No. 4-A-189. Made on heavy twilled cloth back and covered with the best quality of Turkish emery. The best emery cloth possible to produce. Nos. 00 0 1 1 1/2 2  
Price per 24 sheets \$0.72 0.73 0.76 0.78 0.80 0.84  
Three sheets for \$0.10 0.10 0.12 0.12 0.13 0.13

## GLUES.

No. 4-A-190. First Grade Flake Glue. Suited for the requirements of the woodworking trade. Can be used on both soft and hard woods, but is especially adapted to furniture repairing. Can also be used for making printers' rollers, emery wheels, white mouldings and for any other purpose where great strength and flexibility are required. Price per pound \$0.17  
Price in 100 lb. drums, per lb 0.16  
Price in 200 lb. drums, per lb 0.15

## XX FLAKE CARPENTER GLUE.

No. 4-A-191. Especially adapted for cabinet makers, carpenters and general repairing. Price per pound \$0.15  
Price in 100 lb. drums, per lb 0.14  
Price in 200 lb. drums, per lb 0.12

## XXX KALSOMINE GLUE.

No. 4-A-192. This is a thin cut pure hide glue, used largely by kalsominers, also by cabinet makers for high grade joining. Price per pound \$0.18  
Price in 100 lb. drums, per lb 0.17

## SIZING FLAKE GLUE.

No. 4-A-193. This is an excellent glue for veneering, book binding, paper boxes, joining soft woods, sizing barrels, pails, composition mouldings, kalsomining and wall sizing, and for any other purpose where better grade of glue is not required. Price per pound \$0.10  
Price in 100 lb. drums, per lb 0.09 1/2  
Price in 200 lb. drums, per lb 0.09

## GROUND GLUE.

No. 4-A-194. The same as Sizing Flake Glue except that it is ground, and it therefore can be prepared much quicker. It requires soaking but 30 minutes. Price per pound \$0.11  
Price in 100 lb. drums, per lb 0.10  
Price in 200 lb. drums, per lb 0.09 1/2

## FLAKE GELATINE.

No. 4-A-195. Used for high grade joining, repairing leather belts, sizing walls, etc. Price per pound \$0.38  
Price in 100 lb. drums, per lb 0.37  
Price in 200 lb. drums, per lb 0.36

## STEEL WOOL AND SHAVINGS.



No. 4-A-187. Steel wool is made of fine fibers of steel, resembling curled hair, and is used as a substitute for sand paper, emery and pumice stone. When used for rubbing down fillers and varnishes, it will be found superior to sand paper or pumice stone.

The steel shavings are coarse and are used for removing rust from iron preparatory to painting. It is also used for cleaning floors or any surface that has been previously varnished.

No. 0. Very fine. Price per lb. \$0.42  
No. 1. Fine. Price per lb. 0.33  
No. 3. Medium. Price per lb. 0.28  
Steel Shavings. Price per lb. 0.22

## LUBRICATING OILS (Also see Page 112)

We are in a position to furnish high grade oils elsewhere. We have just perfected arrangements the United States to supply our requirements.

Aside from refining the oil, they own their own position to supply a high grade oil.

We guarantee every gallon of oil that we sell possibly be secured for the purpose for which it is intended.

at a less price than you can secure similar oils with one of the largest independent oil refiners in the United States and are in unusually good

to be as represented, and to be as good as can intended.

## CYLINDER OILS.

The Cylinder Oils that we offer are made from the highest grade Pennsylvania crude, which is carefully refined and distilled and guaranteed not to contain foreign matter. It is non-corrosive. The viscosity and gravity tests are high.

## "PREMIER" CYLINDER OIL.

No. 4-A-226. Refined from the very best quality crude and guaranteed to be equal to any of the higher priced oils on the market. It is amber in color.

50 gallon barrels, per gallon \$0.34  
25 gallon barrels, per gallon 0.37  
10 gallon jacketed can, per gallon 0.39  
5 gallon jacketed can, per gallon 0.41  
1 gallon can 0.47

## "PERFECTION" CYLINDER OIL.

No. 4-A-227. Red Tiona Stock, compounded with acidless tallow. Especially suitable for low pressure. Dark green in color.

50 gallon barrels, per gallon \$0.30  
25 gallon barrels, per gallon 0.33  
10 gallon jacketed can, per gallon 0.35  
5 gallon jacketed can, per gallon 0.38  
1 gallon can 0.44

## HIGH PRESSURE CYLINDER OIL.

No. 4-A-228. This oil is specially compounded for high steam pressure from high grade Franklin stock. We guarantee that this oil is equal in every respect to the High Pressure Cylinder Oil offered at much higher prices. Dark green in color.

50 gallon barrels, per gallon \$0.30  
25 gallon barrels, per gallon 0.33  
10 gallon jacketed can, per gallon 0.35  
5 gallon jacketed can, per gallon 0.38  
1 gallon can 0.44

## GASOLINE ENGINE CYLINDER OIL.

No. 4-A-229. This is a strictly high grade compounded oil which we positively guarantee will not in any way injure your engine but that it will improve its running qualities. This oil will positively not gum or congeal and is without any question the very best Gasoline Engine Cylinder Oil on the market.

50 gallon barrels, per gallon \$0.27  
25 gallon barrels, per gallon 0.32  
10 gallon jacketed can, per gallon 0.34  
5 gallon jacketed can, per gallon 0.35  
1 gallon can 0.40

## AUTOMOBILE GASOLINE CYLINDER OIL.

No. 4-A-230. Absolutely the finest oil made. Non-carbon, non-corrosive, high fire test, viscous, odorless and guaranteed not to smoke or char the spark plug. This oil can be used with perfect safety in the best automobiles manufactured.

50 gallon barrels, per gallon \$0.50  
25 gallon barrels, per gallon 0.57  
10 gallon jacketed can, per gallon 0.59  
5 gallon jacketed can, per gallon 0.60  
1 gallon can 0.65

## ENGINE OIL.

No. 4-A-231. High grade dynamo, metal and engine oil. High fire test, low cold test and good viscosity. Will re-filter. This is an oil we will guarantee to give perfect satisfaction under all conditions.

50 gallon barrels, per gallon \$0.25  
25 gallon barrels, per gallon 0.28  
10 gallon jacketed can, per gallon 0.30  
5 gallon jacketed can, per gallon 0.32  
1 gallon can 0.38

## "PERFECTION" RED ENGINE OIL.

No. 4-A-232. This is a bright red oil—500 fire test—200 viscosity, and is an excellent oil for traction and portable engines of all kinds.

50 gallon barrels, per gallon \$0.20  
25 gallon barrels, per gallon 0.23  
10 gallon jacketed can, per gallon 0.25  
5 gallon jacketed can, per gallon 0.28  
1 gallon can 0.34

## SEPARATOR OIL.

No. 4-A-233. A light colored thin oil, suitable for hand separators, wind mills, and for general lubricating purposes. This oil is guaranteed not to gum or congeal.

50 gallon barrels, per gallon \$0.24  
25 gallon barrels, per gallon 0.29  
10 gallon jacketed can, per gallon 0.31  
5 gallon jacketed can, per gallon 0.32  
1 gallon can 0.37

## "PREMIER" SPECIAL MACHINE OIL.

No. 4-A-234. This is a heavy black oil specially compounded for heavy machinery of all kinds. Its lubricating qualities are much greater than any other light bodied oil on the market. If you have had trouble with bearings that are inclined to run hot, we recommend the use of this oil. You will find it thoroughly lubricates and cools the bearings and will not gum.

50 gallon barrels, per gallon \$0.25  
25 gallon barrels, per gallon 0.28  
10 gallon jacketed can, per gallon 0.30  
5 gallon jacketed can, per gallon 0.32  
1 gallon can 0.39



**"PERFECTION" MACHINE OIL.**

No. 4-A-235. A dark red oil of medium body, suitable for shafting, pulleys and general work of all kinds.	
50 gallon barrels, per gallon	\$0.18
25 gallon barrels, per gallon	.22
10 gallon jacketed can, per gallon	.24
5 gallon jacketed can, per gallon	.26
1 gallon can	.32

**SUMMER BLACK OIL.**

No. 4-A-236. A good lubricant.	
50 gallon barrels, per gallon	\$0.11
25 gallon barrels, per gallon	.15
10 gallon jacketed can, per gallon	.24
5 gallon jacketed can, per gallon	.26
1 gallon can	.32

**ZERO BLACK OIL.**

No. 4-A-237. A thin oil which can be used in cold weather and will lubricate perfectly.	
50 gallon barrels, per gallon	\$0.13
25 gallon barrels, per gallon	.17
10 gallon jacketed can, per gallon	.20
5 gallon jacketed can, per gallon	.22
1 gallon can	.28

**No. 1 CASTOR MACHINE OIL.**

No. 4-A-238. An extra heavy compounded castor oil. Guaranteed to hold its body under severe heat and to be the best of its kind manufactured.	
50 gallon barrels, per gallon	\$0.17
25 gallon barrels, per gallon	.22
10 gallon jacketed can, per gallon	.24
5 gallon jacketed can, per gallon	.25
1 gallon can	.31

**No. 2 CASTOR MACHINE OIL.**

No. 4-A-239. The same character as No. 1, but not quite so heavy.	
50 gallon barrels, per gallon	\$0.16
25 gallon barrels, per gallon	.21
10 gallon jacketed can, per gallon	.22
5 gallon jacketed can, per gallon	.22
1 gallon can	.30

**HARVESTER OIL.**

No. 4-A-240. This is compounded oil of very high test. Guaranteed to maintain its heavy consistency in summer or winter. Suitable for all kinds of farm machinery, wind mills, etc.

50 gallon barrels, per gallon	\$0.19
25 gallon barrels, per gallon	.23
10 gallon jacketed can, per gallon	.27
5 gallon jacketed can, per gallon	.28
1 gallon can	.31

**XX WINTER-STRAINED LARD OIL.**

No. 4-A-241. This oil is largely used for thread cutting, lubricating and as a lantern oil. Guaranteed pure.	
50 gallon barrels, per gallon	\$0.75
25 gallon barrels, per gallon	.79
10 gallon jacketed can, per gallon	.81
5 gallon jacketed can, per gallon	.82
1 gallon can	.85

**No. 1 LARD OIL.**

No. 4-A-242. Generally used for lubricating and thread cutting purposes. This oil will not burn.

50 gallon barrels, per gallon	\$0.53
25 gallon barrels, per gallon	.57
10 gallon jacketed can, per gallon	.59
5 gallon jacketed can, per gallon	.60
1 gallon can	.62

**PURE NEATSFOOT OIL.**

No. 4-A-243. Very fine for oiling leather and general use. Strictly pure, guaranteed.

50 gallon barrels, per gallon	\$0.72
25 gallon barrels, per gallon	.76
10 gallon jacketed can, per gallon	.78
5 gallon jacketed can, per gallon	.79
1 gallon can	.82

**No. 1 NEATSFOOT OIL.**

No. 4-A-244. This oil is blended, and is therefore lighter in body than the pure oil. However, it will compare with most neatsfoot oil represented as pure. It is suitable for dressing leather of any kind.

50 gallon barrels, per gallon	\$0.55
25 gallon barrels, per gallon	.59
10 gallon jacketed can, per gallon	.61
5 gallon jacketed can, per gallon	.62
1 gallon can	.65

**Combination Step Ladders**

Bought at Manufacturers' Sale—Three Carloads

Painters, Carpenters and all others who use ladders and who want to be absolutely sure of a thoroughly reliable ladder, when working at elevated heights are urged to consider the merits of this high grade combination ladder with patent locking contrivances.

The various illustrations below show a few of the many uses of this high grade improved combination step-ladder and running ladder. The economy and general utility which these cuts signifies will appeal to you as worthy of careful consideration. These ladders are put together by skilled workmen and nothing but the best material is used in their construction. The side rails are made from the best pine. The rounds are made of hickory and are set into the side rails with a shoulder. The steps are made of basswood and set into grooves in the side rails. Each step except the top is reinforced by a bolt under it with a washer on each end. The use of these bolts and rounds make the ladder the firmest as well as the most reliable on the



View of Combination Ladder used as Step-ladder.



The most difficult work in almost inaccessible places can be performed with perfect safety with this ladder.

To transform this ladder into a trestle it requires but a moment's time. In this position the ladder is very handy for paper hangers or painters. It is frequently used as a trestle for work in a staircase.

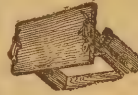
**RUNNING LADDER**

The above cut shows this ladder in an extended position. This is one of the best features of this ladder. This illustration shows how it is possible for this ladder to answer the purpose of two ladders. The lock is automatic, and the heavier the weight upon it the tighter it will hold, making it absolutely impossible for accidents to occur. We urge that you order one of these ladders from us today.

Length as Ladder	Length as Extended Ladder	Price each
4 ft.	7 ft.	\$0.80
5 ft.	9 ft.	1.00
6 ft.	11 ft.	1.20

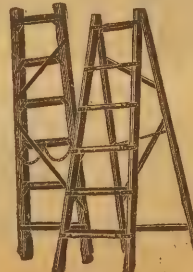
Above illustration shows the Combination Ladder folded. As you will note, it requires but small space for storage. It can be easily carried from place to place.

We give a top view of this ladder, so as to bring out more clearly the castings with which all of these ladders are equipped. These castings work automatically and force the extending ladder to remain absolutely rigid and firm at any elevation to which it is extended. The legs of the ladder are caught and held in place by this automatic device.

**PAINTERS' COMBINED TRESTLE AND STEP LADDER.**

No. 4-A-248. These ladders are strong and well built, made of clear Norway pine. They are well braced and are arranged so that a plank may be put on either step.

Height feet	5	6	8	10
Price	\$1.05	1.25	1.60	2.00

**SEMI-STEEL STEP LADDERS**

No. 4-A-250. The strongest and best step ladder ever produced. We secured 1,500 of these at a Receiver's Sale. When this lot is gone we cannot duplicate them. Send in your order quick.

Construction.—The sides of the ladder are made of special cold rolled steel formed under immense pressure and are many times stronger than the wooden sides used in the construction of common step ladders, and are practically indestructible.

The brackets supporting the steps are also made of cold rolled pressed steel. Steps are clear, heavy Norway Pine, riveted to the steel brackets, there being two rivets at each end of each step.

The back of these ladders is made of clear Norway pine, strongly trussed and fitted with an improved spreader which would make it impossible for the ladder to collapse.

Each ladder is equipped with pail shelf as shown in illustration.

Height, feet	4	5	6
Price each	\$0.60	\$1.00	\$1.20

**EXTENSION LADDERS.**

The sides of these ladders are made of clear pine with hickory rungs, which are so fastened that the sides and the rungs cannot separate.

The extension rollers are of improved design and very strong. The hooks are also made heavier than on the ordinary extension ladder. In fact we guarantee that these ladders are of the finest possible construction and that there is nothing better on the market.

We furnish these ladders in any lengths required.

No. 4-A-246. 20 to 40 feet, in two sections.	
Price per ft.	\$0.13
No. 4-A-246-A. 30 to 60 feet, in three sections.	
Price per ft.	.14

**FARM OR LONG LADDERS.**

No. 4-A-249. Made with Norway pine rails, turned hickory rungs. Each rung turned with a shoulder which imparts much additional rigidity to the ladder. These ladders are extra well constructed and are suitable for any general purpose.

Length	10 ft.	12 ft.	14 ft.	16 ft.	18 ft.	20 ft.
Price	\$1.00	1.20	1.40	1.60	2.15	2.40





# "Hercules" BOILER STEEL Troughs

"So Strong No Animal Can Break or Injure."

FOR POULTRY, HOGS, SHEEP, HORSES AND CATTLE.

Here is the best, strongest and most durable trough ever made. Economical as to feed, easily cleaned, sanitary, won't chill warm feed in winter and will last a life time.

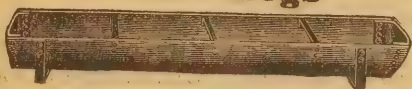
This line shows thickness of iron used in ordinary sheet iron troughs.

This line shows thickness of boiler steel used in "Hercules" Troughs.

YOU CAN NOW APPRECIATE THE VALUE that we offer you in "Hercules" boiler steel troughs made from such heavy material by skilled boiler makers, with the latest improved riveting machines; in fact the workmanship on these troughs is the same as on high grade boiler work, resulting that you have a trough that will actually last a life time and so strong that you can chop the ice from it in winter without injuring the trough in the least.

## "Hercules" Boiler Steel Troughs for Poultry and Hogs

Body and ends made of  $\frac{1}{2}$  inch heavy boiler steel. Rivets are  $\frac{1}{2}$  in. diameter spaced 1 in. apart.



"FIRST COST IS LAST EXPENSE"

Legs and crossbars are heavy 1 in. bar steel. Crossbars spaced close enough to keep animals from crowding.

FOR PIGS, POULTRY AND FARROWING

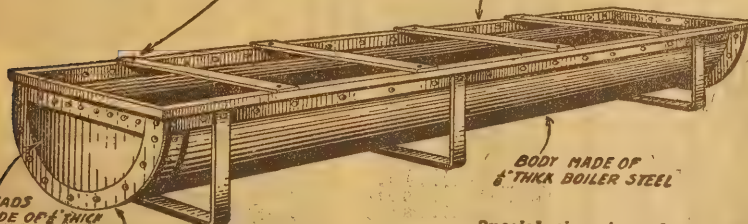
No.	Width Inch.	Depth Inch.	Length Feet	Weight Lbs.	Price
19-A-160	10	5	2	12	\$1.20
19-A-161	10	5	3	17	1.40
19-A-162	10	5	5	28	1.80

Note: The freight on a shipment of troughs weighing 50 lbs. is the same as 100 lbs., so we suggest our customers order sufficient troughs to make up 100 lb. shipment or more.

Special sizes made to order.

## "Hercules" Boiler Steel Troughs for Sheep, Horses and Cattle

CROSS BARS ARE HEAVY 1" BAR STEEL CATTLE TROUGHs BOUND WITH STEEL ANGLES



HEADS MADE OF  $\frac{1}{2}$  THICK BOILER STEEL

ENDS BOUND WITH HEAVY ANGLE STEEL

LEGS ARE HEAVY  $\frac{1}{2}$  THICK STEEL BARS

Special sizes to order. Also special design for scalding hogs. Write us what you want. State size and send sketch.

No.	Width Inch.	Depth Inch.	Length Feet	Weight Lbs.	Price
19-A-135-A	19	9	5	65	\$ 4.80
19-A-135-B	19	9	8	95	6.25
19-A-135-C	19	9	10	115	7.45
19-A-136-A	24	12	5	115	7.00
19-A-136-B	24	12	8	165	9.10
19-A-136-C	24	12	10	190	10.50
19-A-137-A	28	14	5	125	7.40
19-A-137-B	28	14	8	185	9.55
19-A-137-C	28	14	10	210	11.00

No.	Width Inch.	Depth Inch.	Length Feet	Weight Lbs.	Price
19-A-139-A	30	20	5	180	\$ 9.20
19-A-139-B	30	20	8	250	11.70
19-A-139-C	30	20	10	290	13.55
19-A-141-A	32	16	5	140	8.90
19-A-141-B	32	16	8	205	11.20
19-A-141-C	32	16	10	230	12.95
19-A-143-A	36	18	5	180	9.40
19-A-143-B	36	18	8	250	11.95
19-A-143-C	36	18	10	290	13.85

## "Hercules" Boiler Steel Barn Troughs

Body and end made of  $\frac{1}{2}$ -inch Boiler Steel, with angles at front of top and crossbars, placed 2 feet apart. Back of trough is flat and fitted with lugs so can be bolted to wall or fences. Can be directly connected with water supply.



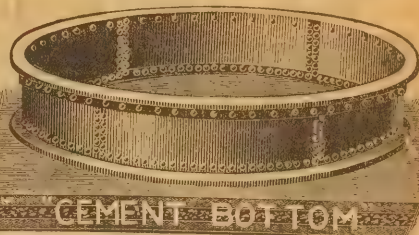
No.	Width at top, in.	Depth, in.	Length, Feet	Weight, Lbs.	Price
19-A-144A	14	12	2	35	\$ 3.00
19-A-144B	14	12	4	56	3.80
19-A-144C	14	12	5	67	4.65
19-A-144D	14	12	6	80	5.10
19-A-144E	14	12	8	104	6.80
19-A-144F	14	12	10	130	8.50
19-A-144G	14	12	12	156	10.10
19-A-144H	14	12	16	210	13.20

When ordering always state width, depth and length.

**GUARANTEE:** Every Hercules Trough is warranted to be exactly as we represent and all we claim, and satisfactory to you, or your money refunded.

## Round Pond Tanks

For large herds of horses and cattle.



CEMENT BOTTOM

We furnish sides of tank only as shown above, as you can easily use a gravel bottom or concrete bottom, thus giving you a tank of large capacity at a minimum cost.

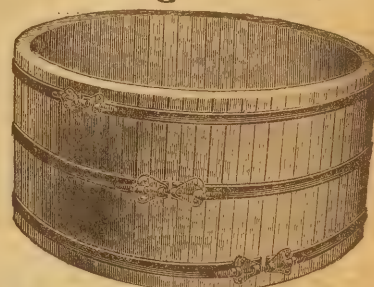
Sides are made of  $\frac{1}{2}$  inch boiler Steel which is bound at top and bottom with steel angles, which are riveted securely to the sides of the tank. Shipped knocked down in sections with angles attached, and all holes punched ready to rivet or bolt sides together which is very little work and needs no previous experience. State which you wish, bolts or rivets to connect the different sections.

SIZES AND PRICES FOR SHELL OR SIDES OF TANK

No.	Diam. Feet	Height Feet	Cap. Gals.	Weight Lbs.	Price Complete
19-A-200	10	2 1/2	1460	430	\$30.00
19-A-201	10	3	1755	480	35.00
19-A-202	12 1/2	2 1/2	2290	540	38.00
19-A-203	12 1/2	3	2740	630	50.10
19-A-204	15	2 1/2	3280	640	51.00
19-A-205	15	3	3940	745	53.00
19-A-206	20	2 1/2	6600	810	57.00
19-A-207	20	3	7920	942	67.00

Special sizes to order. Write us.

## Cypress Stock and Storage Tank.



These tanks are made of Louisiana cypress and are free from unsound sap and unsound knots. The material is in every sense strictly first-class and suitable for tank purposes.

Prices quoted are for tanks made of 1 1/2 in. cypress. We can furnish them made of 2 in. cypress, price of which would be 40% higher than quoted below. We recommend all tanks that are larger than 6 ft. in diameter be built of 2 in. stock.

The 1 1/2 in. stock is dressed to 1 1/2 in. thick and 2 in. stock is dressed to 1 1/2 in. thick. Tanks are shipped from factory located near Chicago. Shipped knocked down.

No.	Diam. Feet	Length of Stave Feet	Number of Hoops	Capacity Gallons	Weight Lbs.	Price Each
19-A-109	4	2	2	176	200	\$ 5.50
19-A-110	4	4	4	284	300	7.70
19-A-111	5	2	2	200	225	3.30
19-A-112	6	2	2	315	285	9.25
19-A-113	6	2 1/2	2	410	340	10.50
19-A-114	7	2	2	441	375	10.75
19-A-115	7	2 1/2	2	535	475	12.95
19-A-116	8	2	2	567	455	13.45
19-A-117	8	2 1/2	2	600	550	14.50
19-A-118	8	2 1/2	2	788	480	15.70
19-A-120	10	2 1/2	2	872	600	19.25
19-A-121	10	2 1/2	2	1165	700	21.25
19-A-122	10	3	4	1100	700	20.50
19-A-123	8	3	6	1445	855	25.00
19-A-124	8	3	8	1866	950	29.50
19-A-125	10	10	8	2645	1150	35.50
19-A-126	12	10	8	5300	1375	55.40
19-A-127	12	12	10	8850	2000	70.00



# GALVANIZED STEEL TANKS

## Made of Full Weight U. S. Standard Gauge Galvanized Steel.

**OUR PRICES AND GUARANTEE.** We quote you the lowest prices ever made on high grade galvanized steel tanks that are guaranteed to be absolutely the best tanks made and satisfactory to you in every detail, or money refunded. Send us your order for prompt shipment and reap the benefit of our money saving prices and have the satisfaction of owning a perfect made tank.

**RUST PROOF.** Our galvanized tanks are positively Rust Proof, have no black iron or bare edges of the sheet coming in contact with water.

**QUALITY.** We use only the best quality of galvanized steel sheets and guarantee full weight U. S. standard gauge No. 20, unless heavier gauge No. 18 or No. 16 is ordered.

**HOW MADE.** Our factory employs only skilled tank makers of long experience with the most improved machinery and all joints are lock seamed. (See illustration.) This style of joint is considered the best possible construction, as there are four thicknesses of metal tightly joined and finished in a workmanlike manner.

**COVERS.** We can furnish flat covers at 11c per sq. ft. for any tank shown and the size of cover is obtained by multiplying the square of the tank. As an example, on a round tank 4 ft. in diameter a square would be 4x4 or 16 sq. ft. On round end tanks the square is figured by the length and width at longest and widest point.

**CAPACITY.** The capacity of tanks as shown in barrels is based on 31½ gal. to the bbl. In figuring the round end tanks no allowance has been made for the round corners, so these tanks will not hold quite as rated.

**KNOCKED DOWN TANKS.** Certain tanks which we regularly ship set up, can and will be shipped knocked down, when so ordered, and such tanks that weigh over 200 lbs. and are to be shipped over 500 miles or more, we advise you have them shipped knocked down, because it will then save in freight charges more than it will cost to put the tank together.

When tanks are shipped knocked down all holes are punched, every part is fitted together at the factory and sufficient solder and rivets are sent so to put the tank together. No previous experience necessary and any handy man can do a most satisfactory job.

**PIPE CONNECTION.** We do not cut pipe connection in steel tanks, because it is a difficult matter for anyone to tell before receiving their tanks just where it is best to cut the hole. You can easily cut the hole by using a cold chisel and cut against a block of hard wood.

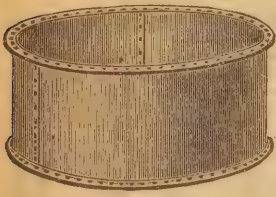
Our galvanized pipe connections consist of one close nipple, two leather washers, two lock nuts and one pipe cap, so you can close hole when you wish. Shipped from factory with tanks.

Prices as follows:

No. 19-A-1600 Pipe Connections.

Size	1 in.	1½ in.	2 in.
Each.....	21c	25c	30c

### ROUND GALVANIZED STEEL TANKS.



Made of No. 20 gauge galvanized steel, guaranteed. Always shipped set up unless otherwise ordered. This gauge of steel is sufficiently heavy in any of the sizes which we offer these tanks for

ordinary stock watering or storage purposes. We can furnish these tanks made of No. 18 gauge steel at one-fifth higher prices. Prices are F. O. B. cars, factory, Indiana.

No.	Dia.	Ht.	Cap.	Wt.	Price
	Feet	Feet	Bbls.	Lbs.	Each
19-A-1	1	3	2	34	70
19-A-2	2	4	2	6	90
19-A-3	3	4	2½	7	100
19-A-4	4	4	3	9	109
19-A-5	5	4	4	12	135
19-A-6	6	5	5	15	155
19-A-7	7	5	6	18	175
19-A-8	8	5	7	21	195
19-A-9	9	5	8	24	215
19-A-10	10	6	9	27	235
19-A-11	11	6	10	30	255
19-A-12	12	6	11	33	275
19-A-13	13	6	12	36	295
19-A-14	14	6	13	39	315
19-A-15	15	6	14	42	335

### ROUND END GALVANIZED STEEL TANKS.



Made of No. 20 gauge galvanized steel, guaranteed. Always shipped set up unless otherwise ordered. This gauge of steel is sufficiently heavy in any of the sizes which we offer these tanks for

ordinary stock watering or storage purposes. We can furnish these tanks made of No. 18 gauge steel at an additional charge of one-fifth to the following prices.

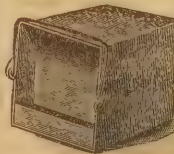
**BRACING:** On tanks 6 or 8 ft. long we furnish one angle brace across the top and two on each side. On the 10 ft. tanks there are two braces across the top and three on each side.

Prices are F. O. B. factory, Northern Indiana.

No.	Width	Height	Length	Capacity	Weight	Price
	Feet	Feet	Feet	Bbls.	Lbs.	Each
19-A-16A	2	1	4	14	50	\$2.65
19-A-16B	2	1	6	24	60	4.00
19-A-16C	2	1	8	34	85	5.05
19-A-16	2	2	4	34	65	3.45
19-A-17	2	2	6	54	90	4.90
19-A-18	2	2	8	74	120	5.80
19-A-19	2	2	10	94	137	6.25
19-A-20	2	2	12	114	155	6.25
19-A-21	2	2	14	134	175	6.85
19-A-22	2	2	16	154	195	7.25
19-A-23	2	2	18	174	215	7.65
19-A-24	2	2	20	194	235	8.05
19-A-25	2	2	22	214	255	8.45
19-A-26	2	2	24	234	275	8.85
19-A-27	2	2	26	254	295	9.25
19-A-28	2	2	28	274	315	9.65
19-A-29	2	2	30	294	335	10.05
19-A-30	2	2	32	314	355	10.45
19-A-31	2	2	34	334	375	10.85
19-A-32	2	2	36	354	395	11.25
19-A-33	2	2	38	374	415	11.65
19-A-34	2	2	40	394	435	12.05
19-A-35	2	2	42	414	455	12.45

Special Sizes made to order. Write us.

### AUTOMATIC POULTRY FOUNTAIN.



This fountain is closed tight except a small space near bottom where fowls have access to water. It will not burst by freezing. It retains water in sanitary condition. Fowls cannot get into it or turn it over. Chicks can drink without danger of drowning. Can be set on a stove and water

warmed. It is easily cleaned and is indestructible.  
No. 19-A-127. One gallon size. Price.....\$0.34  
No. 19-A-128. Two gallon size. Price......42

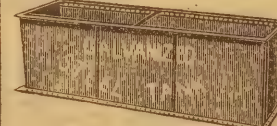
### GALVANIZED STEEL "SHEEP AND HOG DIPPING TANKS."



Prevent contagious diseases; for dipping Sheep and Hogs. Placed in ground with top on level with surface. Animals are driven in and out of tank. Made of No. 20 G. Galv. Steel. If made of No. 18 G., add one-fifth to price. Always ship set up. Our design is correct and best made. If you wish special style, send sketch and dimensions for prices. All sizes are 2 ft. wide at top and 1 ft. wide at bottom. Prices F. O. B. factory, N. Indiana.

No.	L'gth, Top	L'gth, Bottom	Height	Wt., Lbs.	Price
19-A-250	6 ft.	3 ft.	3 ft.	120	\$ 6.92
19-A-251	8 ft.	5 ft.	3 ft.	155	9.05
19-A-252	8 ft.	4 ft.	4 ft.	190	10.65
19-A-253	10 ft.	6 ft.	4 ft.	230	13.50

### SQUARE END GALVANIZED STEEL TANKS.



Made of No. 20 gauge galvanized steel, guaranteed. This gauge of steel is sufficiently heavy in the sizes which we offer these tanks for

ordinary stock watering or storage purposes. We can furnish these tanks made of No. 18 gauge steel at an additional charge of one-fifth higher prices.

Prices are F. O. B. factory, Northern Indiana.

No.	Width	Height	L'gth	Cap.	Weight	Price
	Feet	Feet	Feet	Bbls.	Lbs.	Each
19-A-43	2	2	4	4	80	\$ 4.10
19-A-44	2	2	6	6	105	5.25
19-A-45	2	2	8	8	130	6.45
19-A-46	2	2	10	10	155	7.00
19-A-47	2	2	12	12	180	7.55
19-A-48	2	2	14	14	205	8.10
19-A-49	2	2	16	16	230	8.65
19-A-50	2	2	18	18	255	9.20
19-A-51	2	2	20	20	280	9.75
19-A-52	2	2	22	22	305	10.30
19-A-53	2	2	24	24	330	10.85
19-A-54	2	2	26	26	355	11.40
19-A-55	2	2	28	28	380	11.95

### ROUND BOTTOM GALVANIZED STEEL TANKS.



Made of 20 gauge galvanized steel, guaranteed. This tank is furnished with steel frame or truss at each end so it can be set on the ground. Does not have to be bolted to timbers. Cross-braces placed close so to keep stock from crowding.

Prices are F. O. B. factory, Northern Indiana.

No.	Width	Height	L'gth	Cap.	Weight	Price
	Inch.	Inch.	Feet	Bbls.	Lbs.	Each
19-A-56	30	18	10	8	130	\$ 7.40
19-A-57	24	20	10	8	150	7.50
19-A-58	30	18	8	6	130	6.40
19-A-59	24	20	8	6	130	6.40
19-A-60	18	8	10	2	60	2.75
19-A-61	24	12	10	5	100	4.80
19-A-62	18	14	10	5	100	4.85
19-A-63	24	12	8	4	90	4.40
19-A-64	18	14	8	4	90	4.25
19-A-65	42	22	10	13	175	9.00
19-A-66	36	24	10	13	175	9.00
19-A-67	42	22	8	10	165	8.50
19-A-68	36	24	8	10	165	8.75
19-A-69	48	24	10	20	200	11.70
19-A-70	48	24	8	16	185	10.50

### ROUND GALVANIZED STEEL STORAGE TANKS.

These tanks are always shipped knocked down as they are too large to be shipped set up ready for use. Every tank that we ship is set up at our factory in order that it may be carefully inspected before knocking down to crate and every section is properly marked to facilitate erection. When it leaves our factory we know that every rivet hole is in the right place and every iron is bent to the proper angle. These tanks can be very readily set up and we furnish sufficient solder and rivets to complete the job. Full instructions also accompany each shipment.

We recommend No. 18 gauge for tanks of 40 bbl. capacity and larger, No. 16 gauge for 100 bbl. tanks and larger.

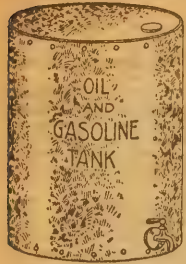
Prices are F. O. B. cars, factory, Northern Indiana.

No.	Dia.	Ht.	Cap.	Wt.	Price
	Feet	Feet	Bbls.	Lbs.	20 G.
19-A-35	6	6	40	340	\$18.65
19-A-36	6	8	54	430	22.85
19-A-37	8	5	60	475	24.00
19-A-38	8	6	72	530	28.00
19-A-39	8	8	95	640	34.50
19-A-40	8	10	120	750	46.75
19-A-41	10	8	150	875	53.00
19-A-42	10	10	180	970	62.00
19-A-42A	8	2	24	240	13.95
19-A-42B	8	2	30	261	14.90
19-A-42C	10	2	38	315	19.40
19-A-42D	10	2	46	348	20.90
19-A-42E	12	2	54	500	26.40
19-A-42F	12	2	68	550	28.90

Special sizes made to order.



## TANKS, TANK HEATER &amp; FEED COOKERS

BEST MADE  
LOWEST PRICESOIL AND GASOLINE  
TANKS.

Made of No. 20 gauge galvanized steel, is very strong and durable and will stand much hard usage. These tanks are fitted with a screw cap opening in top to fill by and faucet in side near bottom to draw off contents. Prices given below are F. O. B. cars factory, Northern Indiana.

No.	Inside Diam. Inches	Height Inches	Capacity Gallons	Price Each
19-A-97	18	30	32	\$ 2.90
19-A-98	24	30	58	3.30
19-A-99	24	36	70	4.15
19-A-100	34	30	117	5.35
19-A-101	34	36	140	5.85
19-A-102	34	42	165	7.07
19-A-103	34	48	185	7.70
19-A-104	40	42	225	9.00
19-A-105	40	48	260	10.00

"PREMIER" OIL  
TANKS.

These tanks are made of No. 26 gauge galvanized iron, body and bottom, with wood bottom under metal, tin hood, portable and steady stream pump which can be taken out of the tank and used for pumping kerosene from barrel into tank. All tanks are neatly painted and lettered.

No.	Capacity Gallons	Weight Crated	Price Each
19-A-106	30	35	\$3.00
19-A-107	60	50	3.50
19-A-108	110	65	5.75

IMPROVED GALVAN-  
IZED FEED COOKER.

With this Cooker you have no steam to keep up, no water to be taken out at night to prevent the boiler from freezing and bursting, furnace and fire flue under the boiler is heavy sheet steel. The fire box has a heavy cast iron grate and back wall. The fuel door and opening in ash pit are cast iron and as now improved the ash pit has a bottom and every joint of the furnace is tight and fire-proof so it is safe to set in a building if desired. The furnace is made of 14 gauge steel and anyone knowing the difference between steel and cast iron knows the steel will withstand four times the heat that the cast iron will. The fire box being cross-wise gives it full length of the width of the boiler. The flue under boiler extends full length of boiler and is provided with a partition for the purpose of carrying heat to the rear end and then returning it on opposite side back to edge of fire box and on backside of the boiler where it enters the smoke pipe. The boiler or pan is No. 18 gauge steel. Cover is made of No. 20 gauge steel hinged to one side of the boiler and flanged downward, making it steam retaining. The grate is made especially for coal, wood or cobs and a surprisingly small amount of fuel is required. Can be used for boiling sorghum, sap and water. Shipped from factory, northern Indiana, and prices given below are F. O. B. at that point.

No.	Lgth.	In.	Dth.	Wgt. Lbs.	Cap. Gal.	Price
19-A-84	6	28	18	290	160	\$13.00
19-A-85	5	24	18	220	115	11.25
19-A-86	4	24	18	200	90	9.65
19-A-87	4	24	12	175	60	9.10

## GALVANIZED STEEL WAGON TANKS.



For supplying portable engine with water, for gathering maple sap and for hauling away from creameries liquids, manure, etc. The top or cover is made of galvanized steel and the tanks are made of No. 20 gauge galvanized steel. The sides and bottoms are flanged together and riveted between two strips of 1x4 in. metal, the rivets being placed only 3 in. apart. The top is fastened to the tank by flanging the sides and top together and riveted or bolted between 1x4 in. metal. In the center of the top there is a 14 in. round manhole with 3 in. flange extending upward with tight fitting cover. This tank is strongly braced and all sizes 6 in. or longer have one bulkhead in center of tank riveted or bolted to the sides which serves to break the force of the water and at the same time to support the tank against outward pressure. One inch pipe or hose connection is placed close to the bottom in rear end. Tank is made of 20 gauge galvanized steel but we can make them up in 18 gauge steel at an additional cost of 20% to the prices below quoted. Shipped from factory, northern Indiana, and prices are F. O. B. cars that point.

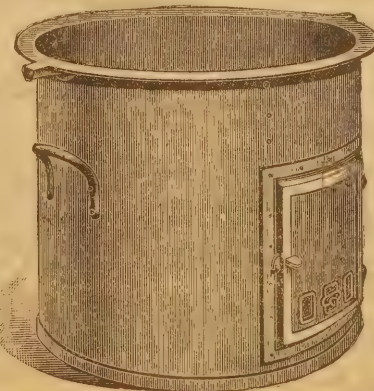
No.	Width Feet	Height Feet	Length Feet	Cap. Bbls.	Weight Lbs.	Price Each
19-A-89	2	2	6	5	120	\$ 6.70
19-A-90	2	2	6	7	150	8.10
19-A-91	2	2	8	9	168	9.75
19-A-92	3	2	8	12	191	11.40
19-A-93	3	2	10	14	236	12.95

## GALVANIZED TANK HEATERS.



This heater is 24 in. high, fire box is 12 in. in diameter and 20 in. long. The outside wall or body is made of heavy galvanized steel which is guaranteed not to rust. The fire box is made of No. 20 gauge annealed steel and extends from grate to top of outside casing, 4 in. from the bottom is placed a cast iron grate. This grate is so constructed with blank space of almost one-half the surface of it, that in using wood for fuel the embers cannot all drop through and cause the fire to go out easily, but it will hold fire equal to any stove made. Is fitted with a dumping grate and fire box and ashes can be removed without taking tank heater out of tank. A galvanized pipe with damper regulator furnished, fitted with a hood as a shelter from rain. Weighs about 40 lbs. Shipped from factory, Northern Indiana, and price quoted is F. O. B. at that point.

No. 19-A-88. Price each.....\$2.25

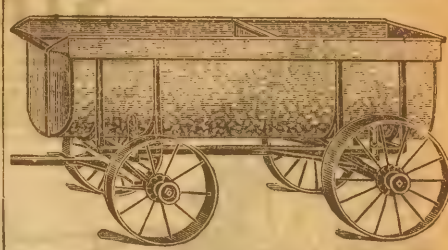


No.	Size Actual Cap.	Diam. In. Kettle Inside Flange	Depth In. Kettle	Price Com. Cooker Without Cover	Extra Charge for Cover	Price Kettle Only	Weight Complete Lbs.
19-A-76	15	20	13 1/2	\$ 4.45	\$0.50	\$1.95	105
19-A-77	20	23	16	5.70	.50	2.40	120
19-A-78	30	27	16	6.75	.50	3.30	175
19-A-79	40	32	18 1/2	8.25	.55	4.20	225
19-A-80	55	32	21	9.80	.55	5.50	250
19-A-81	65	34	21	10.80	.60	6.30	275
19-A-82	75	36	22	11.95	.60	7.60	300

## COAL GRATES FOR FARMERS' STOCK FEED COOKERS.

For use where coal is used as fuel. These are shipped from factory, Southern Michigan and price is F. O. B. cars at that point. No. 19-A-83. Price each.....\$1.65

## "PREMIER" STEEL THRESHER TANKS.



Made of 20 gauge galvanized steel but can make them up in 18 gauge steel at an additional cost of 20% to prices given below. This is the only tank made with truss support to support it and its contents on a farm wagon bolster. The seams are all soldered inside of tank and we do not use packing to make the seams watertight. The truss support is made of heavy angle iron and in a manner which places the strength at points where most needed. All joints are thoroughly riveted and made of heavy enough metal to guarantee strength beyond actual requirements. The plan of the truss is such as to take the weight of the tank at four different bearings, thus distributing the weight of the tank and its contents at widely separated points. This feature of the truss construction adds largely to the strength of the body of tank; in other words the tank rests on four bearings instead of on the bolsters only. We extend a metal side board 5 inches high clear around the top of the tank and top it with 1 inch angle iron to make it rigid. This makes a deck on top of the tank that may be used for fuel, tools, etc. The top of the deck is divided into two parts. The first part is planked and used for fuel box, a shovel board is provided at front end to make the handling of fuel easy. Back of the partition is a 14 inch round manhole with a flange 5 inches high and a tight fitting cover. Across the top of the tank at rear side of manhole is a plank bolted at each end to attach tank pump for filling tank. In the bottom between the front and rear truss we place a 1-inch connection for feed pipe or hose to the engine. The slush board is bolted or riveted to a fastening provided inside of the tank to the side walls, serving to support the tank against outward pressure. Our bulkheads are stationary. These tanks will fit any old farm wagon bolster, narrow or wide track. For wide track, or 42 inch bolster we bolt a 2x4 piece of wood on each side of truss, front and rear, which makes a close fit. Prices on tank complete with truss support and fuel box, planked and pump board attached. Shipped from factory, Northern Indiana, and prices quoted are F. O. B. that point.

Length Width Height Capac. Weight

No.	Ft.	In.	In.	Bbls.	Lbs.	Price
19-A-94	8	38	24	9 1/2	350	\$19.60
19-A-95	10	38	24	12	375	21.75
19-A-96	10	38	28	15	400	22.95

FARMERS' STOCK  
FEED COOKERS.

This is a very popular cooker with stock men. It is very durable, the jacket being made of extra heavy steel and the kettle is made of the very best quality of gray cast iron and can readily be removed from the casing. The interior arrangement is made so that the fire and smoke passes around the kettle before going into the smoke stack, thus bringing the entire bottom of the kettle in contact with the fire, making it possible to boil the contents much quicker than you could with other similar styles of cookers. Guaranteed to hold the actual number of gallons as specified. The fire door is large so as to permit burning large pieces of wood. We furnish grates for these cookers suitable for wood or cobs; if desired we can furnish coal grates at an additional charge. Prices on complete cookers include elbow and one joint of 6 inch pipe with damper. Shipped from factory at Southern Michigan and prices are F. O. B. at that point.



# PREMIER BACK GEARED GALVANIZED STEEL WIND MILLS

Before placing this mill on the market it has been thoroughly tested under all conditions, and we therefore do not make the error of experimenting at the expense of our customers.

One feature we wish to call particularly to your attention is the fact that the main shaft is supported by a bearing on each side of turn table, properly balancing the entire machine and preventing overhang of the wheel.

In designing this mill great care has been used to obtain the greatest amount of power with the least amount of friction and securing a governing device which would be both effective and reliable. These points have been achieved. All material used in the Premier Mills and Towers is such as is best adapted to their requirements and is sufficiently heavy to withstand all strains to which machines of this class are subjected.

The wheels of our mills are made in the following manner: The sails are made of sheet steel heavy enough so we are not compelled to bead the edges to obtain the necessary strength, and the brackets to which they are riveted are secured to the back of the sails, the face or front of the sails offers no resistance to the wind after it has accomplished its work. The shape of the sails is such as has been found to possess the most effective curvature and to present a most desirable angle to the weather, thus obtaining the greatest amount of power with the least amount of friction.

The sails are riveted to steel brackets and are then riveted to the

inner and outer ring segments. The outer ring segments are made of angle steel. The inner ring segments on the larger sized mills are made of flat steel turned edgewise.

The Arms or spokes of the wheels to which the outer and inner rings of the several sections are bolted are made of heavy angle steel and are double bolted to the iron spider or center piece with machine bolts having double or lock nuts.

The Spider Casting is keyed firmly to the main shaft close to the outer main bearing before it is shipped from the factory. When putting the wheel together the arms are bolted to the spider casting. The brace casting is then placed on the end of the main shaft and the sections and braces are bolted to the arms and the braces are bolted to the brace casting.

In the center of the brace casting is a set screw which bears against the end of the shaft. When this set screw is turned it forces the brace casting outward and causes an equal tension upon each of the braces, the effect being to make every part of the wheel perfectly firm, true and rigid.

The work on the wheel and rudder is all done on black metal, then all parts are thoroughly coated by a hot process with a heavy coating of virgin ore spelter, preventing rust.

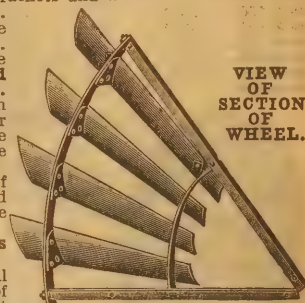
**\$13.50**



The Vane is made of smooth sheet steel firmly secured to heavy angle steel top and bottom bars or arms, all being thoroughly braced, so it is impossible for it to become twisted out of shape. It is hinged to the head or body of the mill in such a manner as to compensate for the tendency of the wind and motion of the wheel to turn the mill out of the proper angle. We thus utilize the full power of the wind until the required velocity is obtained. The vane then acts as a governor and keeps the wheel at a proper angle to sustain speed and power.

As the wind pressure is reduced, the governor spring forces the vane back into place and by this means the wheel is turned into the face of the wind so as to attain the full benefit thereof.

Premier Mills are geared two and one-half to one: That is, the wheel revolves two and one-half times to one stroke of the pump rod. As the power increases in direct proportion to the speed of the motor, it will be readily understood that a back geared mill will give more satisfactory results than will a direct stroke mill.



VIEW OF SECTION OF WHEEL.

## SUBURBAN OUTFITS.

CONSISTS OF Premier Galvanized Wind Mill and Premier Galvanized Tower (of special design made with 4 angle steel posts), and includes a Cypress Tank made of 1½ inch best grade Cypress, with conical cover and 2 inch galvanized stand pipe for pump rod to work through in tank, and galvanized pipe flanges for tank bottom and tank joints. The tank is elevated in the tower from the ground at heights as stated below:

- No. 4-A-473. Outfit: 8 ft. mill, 40 ft. tower, 20 bbl. tank 20 ft. above ground. Price..... **\$91.75**
- No. 4-A-474. Outfit: 8 ft. mill, 60 ft. tower, 20 bbl. tank 20 ft. above ground. Price..... **\$105.00**
- No. 4-A-475. Outfit: 8 ft. mill, 60 ft. tower, 20 bbl. tank 20 ft. above ground. Price..... **\$121.00**
- No. 4-A-476. Outfit: 10 ft. mill, 40 ft. tower, 40 bbl. tank 30 ft. above ground. Price..... **\$112.50**
- No. 4-A-477. Outfit: 10 ft. mill, 50 ft. tower, 40 bbl. tank 30 ft. above ground. Price..... **\$127.90**
- No. 4-A-478. Outfit: 10 ft. mill, 60 ft. tower, 40 bbl. tank 30 ft. above ground. Price..... **\$151.90**
- No. 4-A-479. Outfit: 10 ft. mill, 40 ft. tower, 60 bbl. tank 30 ft. above ground. Price..... **\$121.00**
- No. 4-A-480. Outfit: 10 ft. mill, 50 ft. tower, 60 bbl. tank 30 ft. above ground. Price..... **\$138.50**
- No. 4-A-481. Outfit: 10 ft. mill, 60 ft. tower, 60 bbl. tank 30 ft. above ground. Price..... **\$163.00**

Above prices do not include pump and supply pipe to lead from the pump to the tank. For prices on these items refer to Pump and Pipe pages.

If you wish any special information on Suburban Outfits—Write Us.

**\$21.75**



The Main Shafts are made of polished steel and are proportioned to withstand the strain they are required to sustain.

These shafts are made extra long and have a double bearing. Compare this with other mills and you will find that the main shaft is short and it has but one bearing which is bound to cause overhang of the wheel.

The Journal Bearings are long and are provided with automatic or self oiling boxes, which obviates the necessity of climbing the tower frequently for the purpose of oiling the journals.

The device which operates the pump rod is a rocker arm constructed so the movement of the pump rod is in nearly a perpendicular line, so that no side strain is exerted on the mill. The upward movement is slower than the downward, therefore the greatest power is exerted when most needed: That is, when water is being lifted. High grade babbitt is used in all journal boxes and the box in which the wrist pin (which operates the rocker arm) is contained, is fine brass, therefore we claim that our mills have the most desirable and most serviceable bearings.

The Pull Out Device of our mill is so arranged that a good leverage is obtained and is therefore easily operated. An effective brake is provided on the pump and tower mills, so when the arms are pulled out of the wind the brake is applied, causing the wheel to remain absolutely motionless. The shoe which operates the brake lever is attached to the vane and is adjustable, so that more or less pressure may be brought to bear upon the brake.

The Premier Mills Are Self Governing. With each pumping mill we furnish pump connections, pull out lever and sufficient pump pole and pull out wire for the height of tower ordered with mill.

Mills Are Always Furnished With Wood Tower Fittings when ordered without tower. With steel tower fittings when ordered with steel tower and with most fittings only when specified in order.

Prices are net f. o. b. cars factory near Chicago.

- No. 4-A-469. 6 ft. Premier Wind Mill, Weight 300 lbs. Price... **\$13.50**
- No. 4-A-470. 8 ft. Premier Wind Mill, Weight 385 lbs. Price... **18.75**
- No. 4-A-471. 10 ft. Premier Wind Mill, Weight 470 lbs. Price... **25.00**
- No. 4-A-472. 12 ft. Premier Wind Mill, Weight 850 lbs. Price... **44.50**

See next page for price on Towers.

### OUR BINDING GUARANTEE.

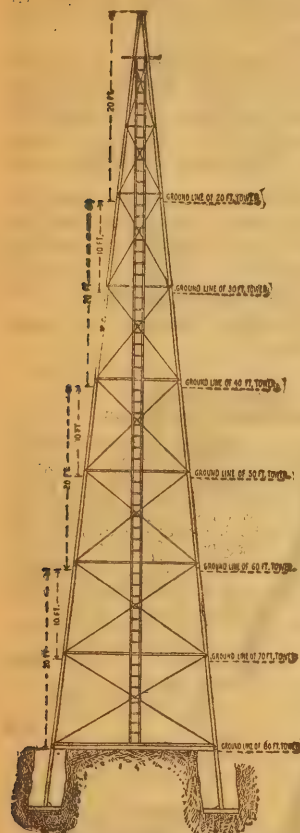
We guarantee every Premier Windmill and Tower to be made of perfect material, most skilled workmanship, and we will replace free of charge, f. o. b. our works, any parts which break within one year, because of poor material or faulty workmanship.

That the Premier Steel Tower, when erected according to our directions, safely supports in all winds (except tornadoes or cyclones) size of windmill for which the tower is designed, and tower will not buckle, break over or blow down unless the anchorage gives way.



# \$13.75 and up "PREMIER" FOUR POST ANGLE STEEL WIND MILL TOWER.

The Most Substantial Tower Manufactured. Heavily Galvanized After Construction.



"Premier" Towers are better constructed than Towers being generally offered for this purpose, and without any question they are the strongest and most substantial towers made.

The Corner Posts are bolted together just below the Cross Girts. A set of Cross Girts is provided for every 10 foot section, the last being close to the ground and just above the anchor post joint. Each 10 foot section of tower is thoroughly braced by four sets of round steel brace rods, which rods are not reduced in size in any way but have an eye turned at each end of them. These brace rods run from the upper Cross Girt down diagonally across the side of the Tower to joint of the next lower Cross Girt. The two rods on each side of the Tower cross each other at the center of the section. Here they are clamped together by especially devised clamps by means of which the brace rods can be tightened so as to make the Tower absolutely rigid and firm. In every case, however, each rod of each principle brace has the same tension as is placed on its mate, so it is impossible to get an uneven tension on any of the rods.

In addition to this style of bracing, which is superior to the braces ordinarily used, we employ a style of bracing seldom found in Towers of other makes; that is, we run diagonal cross rods from corner post to corner post inside of Tower by means of which the Tower is squared up, making it as strong and rigid as it would be were it a solid steel box.

The ladder is also of heavy construction and firmly riveted so it is perfectly safe for anyone to climb. The platforms are large and unusually well constructed.

We furnish these Towers in three styles, properly built and guaranteed to give first class satisfaction, when used in connection with the Mills in sizes for which they are designed.

Prices include the steel Towers, Anchor Posts, Platform and Platform Ladder.

## FOR SIX AND EIGHT FOOT MILLS.

Height Feet	Style Number	Weight Pounds	Price Each
No. 4-A-482 . 20 . . . . .	1 . . . . .	350 . . . . .	\$13.75
30 . . . . .	1 . . . . .	535 . . . . .	20.40
40 . . . . .	1 . . . . .	700 . . . . .	26.70
50 . . . . .	1 . . . . .	940 . . . . .	37.50
60 . . . . .	1 . . . . .	1,150 . . . . .	47.25

## FOR 10 FOOT MILLS.

Height Feet	Style Number	Weight Pounds	Price Each
No. 4-A-483 . 20 . . . . .	2 . . . . .	390 . . . . .	\$15.00
30 . . . . .	2 . . . . .	560 . . . . .	22.50
40 . . . . .	2 . . . . .	745 . . . . .	29.90
50 . . . . .	2 . . . . .	1,000 . . . . .	39.90
60 . . . . .	2 . . . . .	1,250 . . . . .	48.70

## FOR 12 FOOT MILLS.

Height Feet	Style Number	Weight Pounds	Price Each
No. 4-A-484 . 20 . . . . .	3 . . . . .	545 . . . . .	\$22.00
30 . . . . .	3 . . . . .	790 . . . . .	31.50
40 . . . . .	3 . . . . .	1,045 . . . . .	42.25
50 . . . . .	3 . . . . .	1,385 . . . . .	55.50
60 . . . . .	3 . . . . .	1,745 . . . . .	64.00

## PREMIER BACK GEARED PUMP JACK.

This Jack is designed for operating ordinary belt pump standards by belt power from gasoline engines, power wind mills, tread power or water wheel.

These Jacks have three strokes, 5, 7½ and 10 inches. They are furnished with tight and loose pulleys, 13 inches diameter for two inch belt. The pulley should not be driven faster than 200 revolutions per minute. This would cause the pump to make 39 strokes per minute. At this speed, two inch belt will raise water with a 3 inch cylinder:

200 feet on a 5 inch stroke.  
150 feet on 7½ inch stroke.  
100 feet on a 10 inch stroke.

The Pitmans are vertical on the upstroke and put no side wear on the piston bar of the pump. This Pump Jack is extremely simple in design and has only one gearing which is covered with a shield to prevent anything getting in to it.

The Pump Jack is fastened to the Pump Standard by means of a clamp and four bolts, making it convenient to fasten to all ordinary pump standards. There is a foot on the back part of the Jack which rests on the platform and helps support the Pump Jack and also to brace the pump.

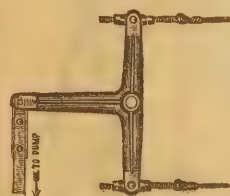
The Crank Shaft presses down and holds the pump down when the Pitmans are pushing the piston bar up and lifting the water.

There is much less difficulty in getting a good foundation when it is set a few feet away from the

well than when it must be set partly over the well, as it is necessary where the engine operates the pump by means of a walking beam.

No. 4-A-489. Premier Back Geared Pump Jack, Weight, 75 lbs. (not including pump).  
Price . . . . . \$6.95

## WIND MILL QUADRANT.



The Quadrants are generally used to transmit power and motion from a Pumping Mill or Pump Jack to Pump.

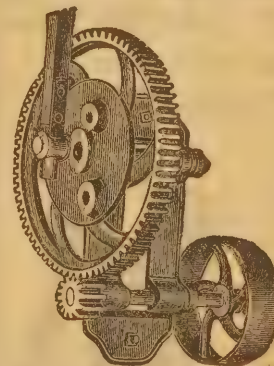
These levers are like in form and are connected by two wires which are drawn tight by take-up bolts in the lever ends. When used with Pumping Mills these wires must be crossed so as to give a lift on the pump rod when the Wind Mill is on the up-stroke. A third arm of one lever is connected to the pump pole of the Pumping Mill or Pump Jack. The third arm on the other lever is connected by a pole leading from the lever to the pump.

By means of the Quadrant Levers you can make connection with a pump within any reasonable distance and in almost any location, frequently being able to make use of the Wind Mill where it could not otherwise be used, and sometimes making it possible to set a Tower Mill in a much more desirable location in relation to the machines to be operated by it.

No. 4-A-485. Furnished with a pump connection, 8 foot of wood pump pole, pivot plates, and center bolts. Weight, per set, of two, 50 lbs. Price, per set of two without wires. . . . . \$2.95

No. 4-A-486. Quadrant Wires for connecting above quadrants, price, per foot. . . . . ½ Cent

## PUMP JACKS.



This Jack is geared back one to six so pump rod makes one complete stroke while the driving pulley makes six revolutions.

Ordinarily it is driven by pulleys and a belt, but under some conditions it is more desirable to drive with sprocket wheels and chain belting or with sheave wheels and wire cable. Therefore, when ordered we will furnish in place of pulley this

Jack fitted with 24 inch sheave wheel so it may be run by wire rope; or we will furnish it with sprocket wheel of 8 inch diameter to take chain belting the proper size to transmit necessary power.

This Jack is always furnished with pulleys unless otherwise specified and is complete with 8 ft. of pump pole and necessary bolts to attach the Jack to the post on which it is secured.

No. 4-A-487. Size No. 1, Pump Jack 10x4 inch pulley, suitable for all sizes of Power Wind Mills, especially adapted for operating pumps. Arranged with 6, 9 and 12 stroke. Weight, 90 lbs. Price. . . . . \$6.75

No. 4-A-488. Size No. 2, Pump Jack, 12x5 inch pulley, designed especially to be used in connection with large pumps having long cylinders, or with irrigation pumps when operated by power Wind Mills, arranged with 12, 15 and 18 inch stroke. Weight, 150 lbs. Price. . . . . \$9.75



# PUMPS

We guarantee that every pump we describe is made of the very best material, every casting being absolutely perfect and finished in the best possible manner. If any pump that may be purchased from us is not found to be entirely satisfactory and as we represent in every particular, it may be returned at our expense.

Pumps are divided into two classes; that is, Lift Pumps and Force Pumps. The lift pump is used where it is necessary to raise water to a spout only. The force pump lifts and forces the water, making it possible to deliver water about your premises. This is accomplished either through the spout or the back outlet, which is located directly opposite the spout. Where the back outlet is to be used, it is necessary that the pump has a cock spout, so the water can be shut off at the spout when it is being forced to any point beyond through the back outlet. If the back outlet is not used, the water can be forced beyond from the spout.

The limit for raising water vertically by suction is 30 feet. We recommend, however, that when a first class job is required that the cylinder be placed within 25 feet of the water. As a matter of fact you will get better service out of any pump if the cylinder

is placed close to the water. It is even better that the cylinder be placed in the water whenever it is convenient to do so, as it will then always be primed by immersion.

Before placing a pump in the well, put the cylinder in a pail of water. This will expand the buckets. Do not condemn a pump if it works hard and stiff at first. This is due to the thickness and expansion of the leather. The pumps are fitted snug, making it almost impossible to adjust them right at the factory and have them work easy when first put in. The pump will always work easier after a few days' use.

In placing the pump in well, be careful to see that the joints are screwed together snugly. Great care should be taken that the connecting rod in deep well pumps be well threaded and screwed together tightly, making good strong joints. Fasten the pump to platform with wood screws. Always suspend the pump from platform. Do not allow it to rest on the bottom of well.

To prime pump, hold a pail of water to the spout and work handle rapidly and it will prime itself.

## PITCHER SPOUT PUMPS.



Each pump is perfectly bored and polished. They are recommended for wells not deeper than 20 ft. These pumps are made with a revolving cap and closed top. Handle can be placed on either side of the pump. To prevent freezing, trip valves by raising handle to extreme height.

No. 4-A-252. Size No. 1, 2½ in. iron cylinder fitted for 1½ in. pipe. Price.....\$0.85

No. 4-A-253. Size No. 1, 2½ in. brass lined cylinder fitted for 1½ in. pipe. Price.....1.65

No. 4-A-254. Size No. 2, 3 in. iron cylinder fitted for 1½ in. pipe. Price.....1.06

No. 4-A-254½. Size No. 2, 3 in. brass lined cylinder fitted for 1½ in. pipe. Price.....1.80

No. 4-A-255. Size No. 4, 4 in. iron cylinder fitted for 1½ in. pipe. Price.....1.42

No. 4-A-256. Size No. 4, 4 in. brass lined cylinder fitted for 1½ in. pipe. Price.....2.40

## KITCHEN FORCE PUMPS.

Beautiful in Design and as Efficient as It Is Ornamental.

Can be used where water is to be supplied from spout or forced from back outlet to any height above. This pump can also be used on drive wells or as a spray pump. It is very powerful and will maintain a high pressure, as the air chamber is large. We recommend that this pump be used where the depth of well does not exceed 25 ft. The body of this pump is made of seamless polished brass tubing. Back outlets are fitted for 1 in. pipe.



No. 4-A-257. Size No. 1, 2½ in. cylinder fitted for 1½ in. pipe. Price.....\$3.80  
No. 4-A-258. Size No. 2, 3 in. cylinder fitted for 1½ in. pipe. Price.....4.00

Scientific Construction in the hands of skilled workmen enables us to give you that distinctive grade of quality impossible to obtain elsewhere.



No. 4-A-259.

## LEADER. Anti-Freezing Set Length Pump with Revolving Top.

The greatest pump bargain ever offered.

Has regular 4 foot set length and is especially adapted for cisterns or wells not over 25 ft. deep. By lowering the cylinder within 10 feet of the water it may be used in deeper wells. This pump has a 6 in. stroke and is fitted with 3 in. x 10 in. iron cylinder.

No. 4-A-259. Price.....\$2.50

## "PREMIER." Closed Top Anti-Freezing Well Lift Pump.

This is a heavy pump and we guarantee it unconditionally as the best 6 in. stroke lift pump manufactured. It is intended for deep, drilled and dug wells, and is also recommended for drive wells. The handles and top are interchangeable and the cylinders are heavy, full length. The pumps are furnished with set lengths as shown in illustration and measure 4 ft. from base to bottom of cylinder.

This pump will give perfect satisfaction in wells up to 90 ft. deep. Where it is used in wells

of over 30 ft. deep the cylinder must be placed within 10 ft. of the water. We recommend the use of brass body cylinders, inasmuch as they are not affected by the water as is an iron cylinder, and they last much longer.

When this pump or any other set-length pumps are to be used in deep wells we can lower the cylinder to whatever distance from the platform that you desire, and for the additional charge—see next page, "For Cost of Lowering Cylinder, Etc."

No. 4-A-260. 3 in. x10 in. iron cylinder fitted for 1½ in. pipe. Price.....\$3.30

No. 4-A-261. 3½ in. x10 in. iron cylinder fitted for 1½ in. pipe. Price.....3.60

No. 4-A-262. 3 in. x10 in. brass body cylinder fitted for 1½ in. pipe. Price.....4.80

No. 4-A-263. 3½ in. x10 in. brass body cylinder fitted for 1½ in. pipe. Price.....5.10



## "PERFECTION." Anti-Freezing Lift Pump.

They are furnished, as shown in illustration, with 4 foot set length 6 in. stroke. Length of cylinder 10 in. They are adapted to cisterns or any kind of a well not over 30 ft. deep, but by lowering the cylinder they may be used for wells 75 ft. to 100 ft. deep. We recommend that cylinder be placed not over 15 ft. above the water.

No. 4-A-267. 2½ in. x 10 in. iron cylinder fitted for 1½ in. pipe. Price.....\$2.75

No. 4-A-268. 3 in. x 10 in. iron cylinder fitted for 1½ in. pipe. Price.....2.85

No. 4-A-269. 3½ in. x 10 in. iron cylinder fitted for 1½ in. pipe. Price.....3.25

No. 4-A-270. 2½ in. x 10 in. brass body cylinder fitted for 1½ in. pipe. Price.....4.25

No. 4-A-271. 3 in. x 10 in. brass body cylinder fitted for 1½ in. pipe. Price.....4.35

No. 4-A-272. 3½ in. x 10 in. brass body cylinder fitted for 1½ in. pipe. Price.....4.75



## "PREMIER." Heavy Swell Top Anti-Freezing Lift Pump.

6 in. stroke. Furnished as shown in illustration with 4 foot set length. This pump may be used in wells 100 ft. or more in depth, providing the cylinder is placed near the water. It is especially intended for farmers' and dairymen's use, where large quantities of water must be had quickly for watering stock.

Spout has 1½ in. outlet and is substantially built and works very easily. Where it is necessary to extend the cylinder, we will furnish necessary pump rod and couplings at 5 cents per foot. Price, however, does not include additional pipe that will be required.

No. 4-A-273. 3½ in. x10 in. iron cylinder fitted for 1½ in. pipe. Price \$4.40

No. 4-A-274. 4 in. x 10 in. iron cylinder fitted for 2 in. pipe. Price.....5.50





**"PREMIER."****Heavy Anti-Freezing Well Force Pumps.****\$5.25**

With 4 ft. set length and 6 in. stroke. Fitted with back outlet for 1 in. pipe. We furnish this pump with either a plain or cock spout. If cock spout is required, there will be an extra charge as noted below. The purpose of this cock spout is that the water may be shut off at the spout, providing you wish to use the back outlet and force water to any point beyond the pump. Both styles of spout are furnished with hose connection.

Add 75c  
if Cock  
Spout  
Wanted.

We wish to call your particular attention to the heavy construction of this pump. The fulcrum is high and strong and is fastened to the standard with hook bolts. Handle may be placed on either side or directly over spout.

If desired, A thumb screw is provided for releasing air when pump is used as a lift only. This pump may be used in wells 200 feet deep by lowering the cylinder within 15 feet of the water. Where the cylinder is to be extended, we will furnish the necessary pump rod, couplings, pipe and labor. (For prices see "COST OF LOWERING CYLINDER" on this page.)

No. 4-A-288. 3x10 in. iron cylinder fitted for 1 1/2 in. pipe. Price.....\$5.25  
No. 4-A-289. 3x10 in. iron cylinder fitted for 1 1/2 in. pipe. Price.....5.35  
No. 4-A-290. 3x10 in. brass body cylinder fitted for 1 1/2 in. pipe. Price.....6.75  
No. 4-A-291. 3x10 in. brass body cylinder fitted for 1 1/2 in. pipe. Price.....6.85  
If cock spout is required, add 75 cents.

**"PREMIER."****Wind Mill Force Pump.**

Same as No. 4-A-288, except has W. M. top.

No. 4-A-292. 3x10 in. iron cylinder fitted for 1 1/2 in. pipe. Price \$6.25

No. 4-A-293. 3x10 in. iron cylinder fitted for 1 1/2 in. pipe. Price \$6.50

No. 4-A-294. 3x10 in. brass body cylinder fitted for 1 1/2 in. pipe. Price 7.75

No. 4-A-295. 3x10 in. brass body cylinder fitted for 1 1/2 in. pipe 8.00

**"PREMIER."****Heavy Wind Mill Force Pump Standard.**

Furnished without cylinder as shown in illustration. These pumps are suitable for

**\$3.65**

Add 75c  
if Cock  
Spout  
Wanted.

deep or shallow wells and can be furnished with the plain or cock spouts. Where the cock spouts are required there will be an additional charge of 75 cents.

These pumps have an outlet at the back for 1 in. pipe. The stocks are tapped just under the spout. The tube in air chamber is large and will not allow water to freeze around the rod. Prices do not include pipe, cylinder or pump rod.

No. 4-A-282. Tapped 1 1/2 in. pipe, 6 in. stroke.....\$3.65

No. 4-A-283. Tapped 2 in. pipe, 10 in. stroke.....\$4.00

**\$3.85****"PREMIER."****Windmill Anti-Freezing Lift Pump.**

We show here a set length pump with 6 in. stroke. Set length measures 4 ft. from base to bottom of cylinder. As shown in illustration are suitable for wells up to 30 ft. deep. Can be used in wells 100 ft. deep by placing the cylinder within 15 ft. or 20 ft. of the water. Where it is necessary to extend the cylinder, we will furnish the necessary pump rod, couplings, pipe and labor. (For prices see "COST OF LOWERING CYLINDER" on this page.)

These pumps are especially desirable where a wind mill is used and the water supply is not to be forced beyond the pump. Can also be used to equally as good advantage as an ordinary hand pump.

No. 4-A-275. 3x10 in. iron cylinder fitted for 1 1/2 in. pipe. Price.....\$3.85

No. 4-A-276. 3x10 in. brass body cylinder fitted for 1 1/2 in. pipe. Price.....\$4.98

**"PREMIER."****Improved Wind Mill Lift Pump Standard.****\$3.00**

This style of pump is very popular with the users of wind mills. We can furnish it in 6 in. or 10 in. stroke. Adapted for either 1 1/2 in., 1 1/2 in., or 2 in. pipe.

No. 4-A-276. Tapped 1 1/2 in. pipe, 6 in. stroke \$3.00

No. 4-A-277. Tapped 1 1/2 in. pipe, 10 in. stroke 3.25

No. 4-A-278. Tapped 1 1/2 in. pipe, 6 in. stroke \$3.00

No. 4-A-279. Tapped 1 1/2 in. pipe, 10 in. stroke 3.25

No. 4-A-280. Tapped 2 in. pipe, 6 in. stroke.....3.00

No. 4-A-281. Tapped 2 in. pipe, 10 in. stroke.....3.25

**"COST OF LOWERING CYLINDER."**

When it is necessary on any of our set-length pumps to lower the cylinder below the usual distance of 4 feet from platform, we can furnish the pump so that the cylinder may be placed at any depth below platform you desire, at the following extra cost, which includes pipe, pump-rod and labor. Add to our price on pump as follows:

Size suction pipe..... 1 1/2 1 1/2 2  
Price per foot, using black pipe, 9c 12c 18c  
Price per foot, using galv. pipe, 16c 18c 25c

Above prices are for each foot cylinder is to be lowered, so multiply the number of feet to be lowered by the above price per foot, and add the total price to our price on pump. When ordering cylinder to be lowered, always give the distance from platform to cylinder.

**\$8.65****"PREMIER."****Double Acting Hand Force Pump with Revolving Spout; Anti-Freezing for Deep or Shallow Wells.**

These pumps are heavy and reinforced throughout. The well end, or part below the base will enter 5 1/2 in. inside diameter casing. The base and brace collar are adjustable and can be placed in any desirable position. Plunger in the upper cylinder is double crimped packed. Lower cylinder has heavy brass body and furnished with an improved 3-wing bronze poppet valve. Each pump is guaranteed unconditionally. Hose connection and strainer is furnished with each pump.

No. 4-A-284. Size lower cylinder 3x10 in., 6 in. stroke fitted for 1 1/2 in. pipe...\$8.65

No. 4-A-284.

**DOUBLE ACTING THREE-WAY FORCE PUMP.****\$9.25**

While this pump is fitted with wind mill head, it can be used as a hand power pump as well. It is the best designed and constructed pump on the market.

Pumps are fitted with 3-wing bronze valve, and can be used in wells of any depth. Water can be forced under ground to tanks, troughs, reservoirs, etc., through the 3-way outlet, which is located 3 feet below the platform. The size of this outlet is 1 inch. The pump is fitted with a shut-off valve at spout, which when closed, the water can then be forced through the underground outlet. These pumps are supplied with two cylinders. The downward stroke of handle causes one-half of the water in cylinder to discharge, the other half being discharged by the upward stroke, thus creating a steady flow of water from the spout, which is fitted with hose connection.

**BRASS LINED CYLINDERS.**

No. 4-A-296. Size lower cylinder 2x10 in. fitted for 1 1/2 in. pipe \$9.25

No. 4-A-297. Size lower cylinder 3x10 in. fitted for 1 1/2 in. pipe \$9.50

No. 4-A-298. Size lower cylinder 3x10 in. for 1 1/2 in. pipe. 9.65

**DOUBLE ACTING FORCE PUMPS.****\$7.75****With Brass Lined Cylinder.**

These pumps are of the same general construction as No. 4-A-296, with the exception that they do not have the 3-way underground outlet.

No. 4-A-299. 2 1/2 inches x 10 inches lower cylinder for 1 1/2 inch pipe. Price.....\$7.75

No. 4-A-300. 3 inches x 10 inches lower cylinder fitted for 1 1/2 inch pipe. Price 8.00

No. 4-A-301. 3 1/2 inches x 10 inches cylinder fitted for 1 1/2 inch pipe 8.25

**\$7.50****"PREMIER."****Tubular Well Three-Way Pump.**

For hand or wind power. This pump is anti-freezing and has revolving spout. Arranged for 2 in. tubular wells. Bottom of working head is tapped for 2 in. iron pipe and connection is made for wood rod. By unbolting upper cylinder, 2 in. valve may be drawn through the entire pump for repairs. The upper cylinder regularly furnished is 1 1/2 inch. Lower cylinder is not included at prices quoted on these pumps.

For bottom cylinder use our tubular well cylinder No. 4-A-308.

We guarantee this to be unconditionally the best constructed tubular well pump on the market. Hose connection is furnished with each pump.

No. 4-A-284 1/2. Fitted with 2 in. pipe, 6 in. stroke and upper cylinder.....\$7.50

No. 4-A-285. Fitted with 2 in. pipe, 10 in. stroke and upper cylinder.....8.00







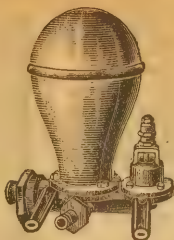
**"PERFECTION" SPRAY PUMPS.**

We offer this brass pump guaranteeing fully that it will do your work. Barrels are of seamless brass tubing. Bottom is brass with brass gauze strainer. The valves are hard vulcanized rubber balls. The hose is extra heavy 4 ply.

The pressure which is brought on the down stroke can easily be from 75 to 125 lbs. Large air barrel and heavy pressure insures a continuous stream. The nozzles will throw a spray, solid stream sprinkle or fine mist. Every pump is equipped with agitator to keep the spraying solution stirred up. All parts coming in contact with the poisonous and acid spraying liquids are brass and non-corrosive.

Each pump is fitted with 3 feet of hose and nozzles as described and can be used for fire protection, washing windows, buggies or spraying trees or shrubbery.

No. 4-A-123 Price as shown in cut with bucket attachment.....\$1.97  
No. 4-A-124 Fitted with foot holder instead of bucket attachment.....\$2.12



A ram with a 10 ft. fall will drive about 1/7 of the water furnished a distance of 100 to 200 rods to a position 100 to 200 ft. above the level of the ram.

Write us, giving full particulars of the amount of fall from your source of supply to the ram and state the height that you wish to elevate the water to and also the distance you wish to carry it from the ram and about the amount of water that you wish to deliver to your tank or reservoir and with this information we can give you a complete estimate including cost of ram and pipe needed.

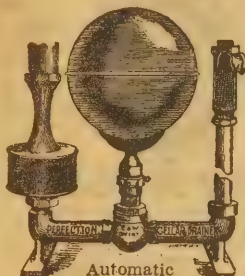
Size No.	Supply per Minute to Operate Ram	Length of Drive Pipe	CALIBER OF PIPES Drive	Discharge	Price
4-A-1302	1 to 2 gallons	50 to 75 feet	1 inch	1 inch	\$ 4.80
4-A-1313	2 to 4 gallons	50 to 75 feet	1 inch	1 inch	5.88
4-A-1324	3 to 7 gallons	50 to 100 feet	1 1/2 inch	1 inch	7.50
4-A-1335	6 to 14 gallons	50 to 150 feet	2 inch	1 inch	11.75
4-A-1346	11 to 25 gallons	50 to 200 feet	2 1/2 inch	1 inch	21.25
4-A-1357	20 to 40 gallons	50 to 200 feet	3 inch	1 1/2 inch	39.00

**PERFECTION CELLAR DRAINER**

For Draining Boiler Pits, Cellars, etc. Operated by Water, Steam or Air Pressure.

**"Automatic" Drainer, Made in Two Styles "Plain" Drainer.**

There are a great many cellars, boiler pits, wheel pits, etc., in which water accumulates, and this Cellar Drainer is a very reliable device to force the water out of such a place. For ordinary use we recommend the Automatic Perfection Cellar Drainer to be connected to City Water pressure. We show herewith how this should be connected. When water accumulates in the pit, the float is lifted from the stop valve and the City water passes through the drainer and forces out the bilge water. This drainer starts and stops itself automatically. Drainer can safely be depended on to lift the discharge water one-fifth of the distance in feet of the City water pressure in pounds. In other words, with a fifty pound City water pressure you could raise the discharge water ten feet.

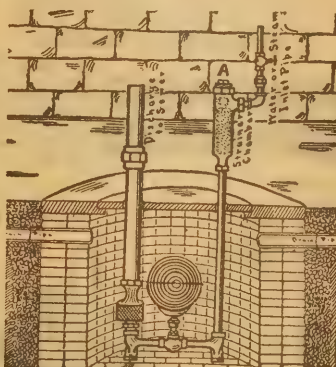


Automatic

**AUTOMATIC "PERFECTION" CELLAR DRAINER.**

No.	Size Inlet Pipe	Size Discharge Pipe	Gals. Disc. Per Hour	Weight Lbs.	Price
4-A-141	1 in.	1 in.	400	19	\$17.50
4-A-142	1 in.	1 1/2 in.	800	22	22.00
4-A-143	1 in.	2 in.	1500	28	26.00

Size: 18 inch long, 12 inch wide, 20 inch high.

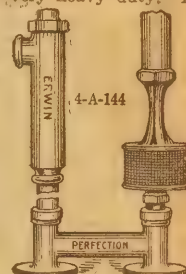
**PLAN OF INSTALLING.**

Plan showing one of a number of ways of setting and connecting a Perfection Cellar Drainer.

Note—When information is desired or order is given, please state the estimated water or steam pressure. Height from bottom of Drainer pit to point where water is to be discharged. Plan to make the distance as short as possible.

Chart and full instructions with each Drainer.

Cut No. 4-A-144 shows the Plain Cellar Drainer without the automatic attachment. We recommend this Drainer for use under very heavy duty. It can be operated with water, steam or air pressure. Connection would be made into this the same as on the automatic, but it would operate only when the valve on the power line is open, permitting either water, steam or air to blow through the Drainer. Where there is almost a constant discharge of water to be cared for, this Drainer is better than the automatic. These Plain Cellar Drainers are largely used to keep water out of ditches, excavations and foundations, for plumbers and contractors. They can be easily operated by attaching a rubber hose to the City water supply and another from the discharge to the sewer and let it run as long as it may be necessary to keep the excavation drained.



4-A-144

These Drainers are noiseless, well built and have larger capacity than any other Drainer on market.

**"PLAIN PERFECTION CELLAR" DRAINER.**

No.	Size Inlet Pipe	Size Discharge Pipe	Gals. Disc. Per Hour	Weight Lbs.	Price
4-A-144	1 in.	1 in.	400	16	\$12.00
4-A-145	1 in.	1 1/2 in.	800	19	16.00
4-A-146	1 in.	2 in.	1500	25	20.00

Dimensions: 12 in. long, 5 in. wide and 14 in. high.

**PERFECTION WATER LIFT**

Automatically Operated by Water Pressure. Used to Pump Cistern Water or Increase City Water Pressure.

The strongest, best constructed and most durable Water Lift made. An iron pump, brass lined throughout. Valves hold tight, will not cut; require no oiling. Few parts, and all parts easy of access. No inside stuffing nuts, springs or packing. No water need be wasted. This is a water lift that you can depend upon. Satisfactory operation and durability guaranteed. The knowledge gained by 25 years' experience in pump building enters into the construction of this pump.

In selecting one of these Water Lifts the water pressure you have available must positively be considered. In other words, you cannot use your own discretion in picking out the size of Lift you want without considering the factor of the water pressure which you can not get to operate the pump.

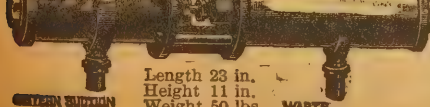
For very low water pressures where the pressure ranges from 15 lbs. up to 25 lbs., we recommend our Lift No. 5 with a 4 1/2 in. power cylinder and a 3 in. pump cylinder. This Lift wastes two gallons of city water to every gallon pumped.

If you want to develop a higher pressure on the water which you are pumping, then we recommend even a larger size pumping cylinder in proportion to the size of the power cylinder and we advise using our No. 3 Water Lift. This wastes 2 1/2 gallons of water for every gallon pumped.

For pressures from 20 to 35 lbs., we recommend our Lift No. 2 with a waste of 1 1/2 gallons for every gallon of water pumped.

Where high pressures are available from 40 to 60 lbs., we recommend our Lift No. 1, which wastes one gallon of city water for every gallon pumped. In this Lift both cylinders are equal and it will discharge just as much water as it wastes. Of course this Lift can not be successfully operated except where you have from 40 to 60 lbs. water pressure. By this we mean that you cannot get a good strong pressure on the water discharged at the pumping end of the machine. For extremely high pressure from 60 lbs. up, we recommend our Lift No. 4 which wastes 1/2 of gallon of water for every gallon pumped.

If you carefully consider the above information you can very easily determine which of these Lifts is especially adapted to your purpose. The main thing to remember is that if you want a higher pressure on the water which you are pumping, it is necessary to have a large power cylinder and a small pumping cylinder, and if the water pressure in your town is exceptionally high and you do not care for a very high pressure on the water which you are pumping, then you can use a small power cylinder and a large pumping cylinder and according as you may wish to vary in either of these extremes you can make a selection from this list which covers all necessary requirements within the pressures specified above. If this is not clear to you, write us about what pressure you want to pump water against and what pressure you have and we will recommend proper Lift for your purpose. We will furnish full instructions for installing these Automatic Lifts.



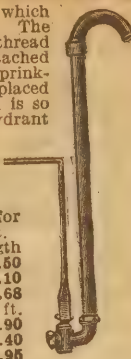
Length 23 in.  
Height 11 in.  
Weight 50 lbs.

Catalog Nos.	Size of Lift	Power Pump	Supply Pipe	Exhaust Pipe	Suction Pipe	Delivery Pipe	Gals. per hour pumped	Gals. City Water Used	Price
No. 4-A-136..	No. 1	3 inch	3 inch	inch	inch	1 inch	293	296	\$35.00
No. 4-A-137..	No. 2	3 inch	2 1/2 inch	inch	inch	1 inch	214	296	35.00
No. 4-A-138..	No. 3	3 inch	2 inch	inch	inch	1 inch	129	297	35.00
No. 4-A-139..	No. 4	2 1/2 inch	3 inch	inch	inch	1 inch	293	217	35.00
No. 4-A-140..	No. 5	4 1/2 inch	3 inch	inch	inch	1 inch	293	431	65.00



**GALVANIZED GOOSENECK HYDRANTS.**

A low priced, efficient hydrant, which is made in galvanized pipe only. The gooseneck has a standard hose thread and to which the hose can be attached for fire protection purposes, lawn sprinkling, etc. The valve which is placed below the frost line is brass, and is so arranged that it will drain the hydrant when shut off, thus preventing freezing. The hydrant is provided with shut-off rod, complete as shown in illustration.

**No. 4-A-305.**

	4 ft.	5 ft.	6 ft.
Size	Length	Length	Length
1/2 inch...	\$1.35	\$1.40	\$1.50
3/4 inch...	1.80	2.00	2.10
1 inch...	2.50	2.60	2.68
	6 1/2 ft.	7 ft.	8 ft.
1 inch...	\$1.70	\$1.80	\$1.90
1 1/4 inch...	2.20	2.30	2.40
1 1/2 inch...	2.75	2.85	2.95



# PIPE FOR STEAM, WATER, GAS, OIL, ETC.

Good for All General Purposes

**Black Pipe.**  
**Galvanized Pipe.**



**Lap Welded Casing.**  
**Boiler Tubes.**

## NEW STANDARD PIPE FOR WATER, GAS AND STEAM.

No. 6-A-1. The size of the pipe is always determined by its inside diameter. It comes in lengths ranging 16 to 20 feet, threaded and fitted with couplings.

Prices quoted are for full lengths. Where pipe is cut to special lengths there will be an additional charge for threads as noted below. Special lengths are not furnished with couplings.

Nom'l Inside Diam. Inches	Actual Outside Diam. Inches	Thickness Inches	Nominal Weight per foot	No. of Threads per Inch of screw	Price per ft. Black	Price per ft. Galvan.
3/4	0.67	0.091	0.56	18	\$0.02	\$0.03
1	0.84	0.109	0.84	14	.02 1/2	.04
1 1/4	1.05	0.113	1.12	14	.03 1/2	.04 1/2
1 1/2	1.31	0.134	1.67	11 1/2	.04 1/2	.06 1/2
1 3/4	1.66	0.140	2.24	11 1/2	.06	.08 1/2
2	1.9	0.145	2.68	11 1/2	.07 1/2	.10 1/2
2 1/4	2.37	0.154	3.61	11 1/2	.09 1/2	.13 1/2
2 1/2	2.87	0.204	5.74	8	.15 1/2	
3	3.5	0.217	7.54	8	.19	
3 1/2	4.00	0.226	9.00	8	.25 1/2	
4	4.5	0.237	10.66	8	.28 1/2	

Prices  
Subject  
Market  
Changes.

## OVERHAULLED STANDARD BLACK PIPE.

No. 6-A-2. For steam, water, gas and oil. It is of a second hand nature, but thoroughly practical for further use. It is re-threaded, oiled and furnished complete with couplings and is carefully inspected before shipment. Comes in random lengths. When ordered in special lengths there will be an additional charge for threads as noted below.

Pipe ordered cut to special lengths is not furnished with couplings.

Size Inside Diam.	Approx. Weight per ft.	Price per ft.	Size Inside Diam.	Approx. Weight per ft.	Price per ft.
3/4	1/2	\$0.01 1/2	3 1/2	9	\$0.18
1/2	3/4	.02	4	10 1/2	.20
3/4	1 1/10	.02 1/2	4 1/2	12 1/2	.23
1	1 1/8	.03 1/2	5	14 1/2	.28
1 1/4	2 1/8	.04 1/2	6	18 3/4	
1 1/2	2 3/8	.05 1/2	7	23 1/4	Prices
2	3 3/8	.07 1/2	8	28 3/4	on
2 1/2	5 3/4	.10 1/2	9	33 3/4	appli-
3	7 1/2	.15	10	40	cation.

## EXTRA HEAVY WROUGHT IRON PIPE.

No. 6-A-3. Second hand, in good condition. Suitable for ice manufacture, high steam pressure and for other purposes where a heavy pipe is required.

We generally have pipe of this kind in stock, and it is offered subject to stock on hand at the time order is received.

Inside Diam. Inches	Approx. Weight per ft.	Price per ft.	Inside Diam. Inches	Approx. Weight per ft.	Price per ft.
1	2.17	\$0.04 1/2	3	10.25	\$0.21
1 1/4	3	.06	3 1/2	12.47	.25
1 1/2	3.63	.07 1/2	4	14.97	.30
2	5.02	.10	5	20.54	.41
2 1/2	7.67	.15 1/2	6	28.58	.57

## EXTRA CHARGE FOR THREADING PIPE OUT SPECIFIED LENGTH.

We make the following additional charges for threading and cutting pipe to special lengths; price quoted is per thread. (Always allow price of two threads, when pipe is to be threaded on both ends.) Couplings for special length pipe will be charged for extra.

Size, Diameter...	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$2\frac{1}{2}$
Price, per thread	$2\frac{1}{2}c$	$2\frac{1}{2}c$	$2\frac{1}{2}c$	3c	$3\frac{1}{2}c$	4c	5c	$7\frac{1}{2}c$	10c	$12\frac{1}{2}c$
Size, Diameter.....		$3\frac{1}{2}$	4	5	6	7	8	9	10	
Price, per thread.....		\$0.16	.17	.22	.35	.45	.50	.75	.75	

## WROUGHT IRON LAP WELDED CASING.

No. 6-A-4. We have a large quantity of fine wrought iron lap welded casing which is as good as new. The threads are newly cut and each length is fitted with a new coupling. It is not as heavy as the standard pipe, but it will stand equally as much and even greater pressure.

This casing can be used for almost any purpose for which standard black pipe is used, and it is especially recommended for water, gas, and oil lines. Owing to the fact that it is lighter than the standard pipe, it has finer threads. Regular casing threads 14 to the inch. In connection with this casing we can furnish a full line of standard fittings which you will find quoted under the head of "Casing Fittings." These fittings being made to work in connection with the casing.

Inside Diam. Inches	Outside Diam. Inches	Approx. Weight per ft. lbs.	Price per ft.
1 3/4	2	2	\$0.05 1/2
2	2 1/4	2 1/4	.06
2 3/4	3	3 1/8	.08
3 1/4	3 1/2	4 1/2	.12
3 3/4	4	5 1/2	.14
4 1/4	4 1/2	6 3/4	.17
5 5/8	6	10 3/4	.25
6 1/4	6 5/8	13	.35

## BOILER TUBES FOR RE-TUBING PURPOSES.

No. 6-A-6. We offer below an opportunity to purchase the finest selected Boiler Tubes at prices that mean an enormous saving to you. These tubes are carefully inspected before shipment, and we guarantee them absolutely satisfactory for re-tubing boilers of any kind.

We ship them forward with the understanding that you will be satisfied with them, and give you the privilege, upon inspection, to return them to us, provided you do not find them up to our representations, and you can return them then at our expense for freight.

We cut these tubes to length. They have square ends, are straight, and are practically free from rust and scales.

Outside Diam. Inches	Thickness Inches	Weight per ft.	Price per ft.
2	0.095	1.92	\$0.05
2 1/4	.095	2.17	.07
3	.109	3.25	.08
3 1/2	.120	4.32	.12
4	.134	5.47	.14
4 1/2	.134	6.17	.17

## BRAND NEW LAP WELDED STEEL BOILER TUBES.

No. 6-A-7. We offer the new tubes for those who do not care to purchase second hand tubes. The prices quoted apply only to regular stock lengths. Where it is necessary to cut to special lengths a charge of 2 1/2 cents per cut, also a charge for any waste that would be caused by cutting stock lengths.

Outside Diam. Inches	Price per ft.	Outside Diam. Inches	Price per ft.
1 1/2	\$0.17	2 3/4	\$0.15 1/2
1 3/4	.12 1/2	3	.16
2	.11 1/2	3 1/4	.18 1/2
2 1/4	.14	3 1/2	.20
2 1/2	.14 1/2	4	.25



CAST IRON AND  
MALLEABLE IRON

## FITTINGS

FOR WROUGHT  
IRON PIPE

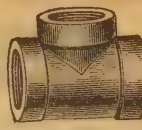
ELBOW



REDUCING ELBOW

ELBOW  
with side openingSTREET  
ELBOW

ELBOW 45°



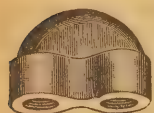
TEE



REDUCING TEE



CROSS

RETURN BEND  
close patternRETURN BEND  
open pattern

LOCKNUT



FLANGE UNION



CEILING PLATE



UNION



FLOOR PLATE



COUPLING



REDUCER

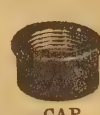


BUSHING

**HOW TO ORDER FITTINGS.**  
1—Give our order number.  
2—State size of fitting.  
3—State kind of fitting.  
4—State price each.  
This will avoid mistakes.



PLUG



CAP



NIPPLE

## CAST IRON FITTINGS FOR STANDARD WROUGHT IRON PIPE.

All fittings are made from the best materials, carefully tapped and perfect threads guaranteed.		Generally used for steam and water purposes.															
Size, inches.		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8
No. 21-A-1.	Elbows, Black	\$0.02	\$0.02	\$0.02	\$0.03	\$0.04	\$0.06	\$0.07	\$0.10	\$0.18	\$0.27	\$0.38	\$0.43	\$0.72	\$0.99	\$1.70	\$2.43
No. 21-A-2.	Elbows, Galvanized	.04	.04	.05	.06	.08	.12	.15	.20	.36	.54	.76	.86	1.44	1.98	3.40	4.86
No. 21-A-3.	Tees, Black	.03	.03	.04	.05	.08	.12	.15	.26	.40	.54	.80	.86	1.08	1.44	2.45	3.51
No. 21-A-4.	Tees, Galvanized	.06	.06	.07	.09	.11	.17	.21	.30	.53	.72	.97	1.13	1.98	2.61	4.41	6.30
No. 21-A-5.	Crosses, Black			.12	.16	.20	.31	.38	.54	.94	1.44	1.94	2.26	3.96	5.22	8.82	12.60
No. 21-A-6.	Crosses, Galvanized		.01	.01	.01	.01	.02	.03	.05	.07	.11	.13	.26	.36	.56	.82	
No. 21-A-7.	Plugs, Black	.01	.02	.02	.02	.03	.03	.05	.06	.11	.15	.23	.26	.53	.72	1.12	1.64
No. 21-A-8.	Plugs, Galvanized	.02	.02	.02	.02	.03	.03	.05	.06	.11	.15	.23	.26	.53	.72	1.12	1.64
No. 21-A-9.	Bushings, Black		.01	.01	.01	.02	.02	.03	.04	.06	.09	.13	.18	.24	.30	.56	.82
No. 21-A-10.	Bushings, Galvanized		.03	.03	.03	.04	.05	.06	.09	.13	.18	.24	.30	.56	.75	1.12	1.64
No. 21-A-11.	Caps, Black			.02	.03	.04	.05	.07	.10	.12	.16	.24	.31	.42	.67	.97	1.28
No. 21-A-12.	Caps, Galvanized		.01	.02	.02	.03	.04	.05	.07	.10	.12	.16	.24	.31	.42	.67	.97
No. 21-A-13.	Couplings, Black	.01	.02	.02	.03	.04	.05	.07	.10	.12	.16	.24	.31	.42	.67	.97	1.28
No. 21-A-14.	Couplings, Galvanized	.02	.02	.03	.04	.05	.07	.10	.12	.16	.24	.31	.42	.67	.97	1.18	2.10
No. 21-A-15.	Flange Unions, Black		.24	.28	.32	.39	.47	.60	.75	.90	1.08	1.26	1.89	2.36	3.30	4.20	
No. 21-A-16.	Flange Unions, Galvanized		.06	.07	.08	.10	.14	.20	.43	.62							
No. 21-A-17.	Return Bends, Close, Pat., Black	.13	.15	.16	.20	.29	.41	.87	1.24								
No. 21-A-18.	Return Bends, Close, Pat., Galv.		.09	.11	.14	.20	.29	.49	.79								
No. 21-A-19.	Return Bends, Open, Pat., Black		.19	.22	.29	.40	.58	.98	1.58								
No. 21-A-20.	Return Bends, Open, Pat., Galv.																
No. 21-A-21.	Ceiling Plates, Black	.03	.04	.05	.06	.08	.10	.12	.15	.16	.20	.28	.38	.58	.85	.95	
No. 21-A-22.	Floor Plates, Black	.02	.02	.02	.03	.04	.05	.07	.10	.12	.16	.24	.31	.42	.67	.97	1.28
No. 21-A-23.	Nipples, Short, Black	.01	.01	.01	.01	.02	.02	.04	.04	.06	.12	.16	.28	.32	.54	.66	1.00
No. 21-A-24.	Nipples, Short, Galvanized	.01	.01	.01	.01	.02	.02	.04	.04	.06	.12	.16	.28	.32	.54	.66	1.00
No. 21-A-25.	Nipples, Long, Black	.01	.01	.01	.02	.03	.04	.06	.08	.10	.18	.26	.40	.44	.74	1.00	1.16
No. 21-A-26.	Nipples, Long, Galvanized	.02	.02	.03	.04	.06	.08	.10	.12	.15	.22	.31	.43	.51	.83	1.13	1.94
No. 21-A-27.	Reducing Elbows, Black	.05	.07	.09	.13	.17	.23	.44	.62	.87	1.02	1.66	2.26	3.88	5.68		
No. 21-A-28.	Reducing Elbows, Galvanized	.02	.02	.04	.04	.07	.09	.12	.22	.33	.45	.52	.90	1.24	2.12	3.06	
No. 21-A-29.	45 degree Elbows, Black	.05	.05	.08	.09	.14	.18	.25	.44	.66	.90	1.04	1.80	2.48	4.24	6.12	
No. 21-A-30.	45 degree Elbows, Galvanized		.04	.05	.06	.10	.12	.17	.30	.45	.63	.72	1.26	1.66	2.81	4.05	
No. 21-A-31.	Reducing Tees, Black	.08	.10	.12	.20	.24	.34	.60	.90	1.26	1.44	2.52	3.32	5.62	8.10		
No. 21-A-32.	Reducing Tees, Galvanized	.06	.09	.11	.17	.22	.30	.52	.79	1.08	1.26	2.16	2.88	4.86	6.93		
No. 21-A-33.	Reducing Crosses, Black	.13	.18	.22	.34	.44	.60	1.04	1.58	2.16	2.52	4.32	5.76	9.72	13.86		
No. 21-A-34.	Reducing Crosses, Galvanized							.22	.29	.36	.48	.70	.98	1.92	2.43		
No. 21-A-34B.	Reducers, cast iron, black																

## MALLEABLE IRON FITTINGS FOR STANDARD WROUGHT IRON PIPE.

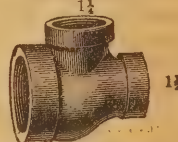
Used in connection with gas, air, and water tank lines. The utmost care has been used in the manufacture to prevent any trouble from leaky fittings. Extreme care is used in tapping our line of malleable fittings, making them the best possible fittings for this class of work.

Size, inches.		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
No. 21-A-35.	Elbows, Right Hand, Black	\$0.01	\$0.01	\$0.02	\$0.03	\$0.05	\$0.07	\$0.08	\$0.11	\$0.16	\$0.26	\$0.50
No. 21-A-36.	Elbows, Right & Left Hand Bk.	.02	.02	.03	.05	.07	.10	.13	.20	.30		
No. 21-A-37.	Elbows, Right Hand, Galvanized	.02	.03	.04	.06	.09	.12	.18	.27	.41	.82	
No. 21-A-38.	Elbows, 45°, Right Hand, Black	.03	.03	.04	.06	.09	.12	.18	.27	.41	.82	
No. 21-A-39.	Elbows, 45°, Right Hand, Galv.	.04	.05	.07	.08	.13	.16	.28	.45	.63	1.24	
No. 21-A-40.	Elbows, Street, Black	.03	.03	.04	.07	.08	.13	.18	.30	.50		
No. 21-A-41.	Elbows, Street, Galvanized	.04	.04	.05	.09	.11	.18	.26	.43			
No. 21-A-42.	Side Outlet Elbows, Black		.03	.03	.06	.10	.15	.20	.33			
No. 21-A-43.	Tees, Black	.02	.02	.03	.04	.05	.08	.10	.15	.20	.35	.56
No. 21-A-44.	Tees, Galvanized	.03	.03	.05	.07	.12	.16	.23	.33	.63	.99	
No. 21-A-45.	Crosses, Black	.03	.03	.04	.07	.10	.13	.20	.33	.58	.99	
No. 21-A-46.	Crosses, Galvanized		.05	.06	.08	.15	.20	.30	.50	.91	1.48	
No. 21-A-47.	Reducers, Black	.01	.01	.02	.03	.05	.07	.09	.15	.23	.33	
No. 21-A-48.	Reducers, Galvanized		.02	.03	.05	.08	.12	.15	.25	.35	.54	
No. 21-A-49.	Caps, Black	.01	.01	.02	.03	.04	.05	.08	.11	.15	.28	
No. 21-A-50.	Caps, Galvanized	.01	.02	.03	.04	.06	.08	.13	.17	.25	.43	
No. 21-A-51.	Return Bends, Close, Black			.04	.08	.12	.16	.25	.33			
No. 21-A-52.	Return Bends, Close, Galvanized			.08	.12	.18	.25	.38	.54	.66	.99	
No. 21-A-53.	Return Bends, Open, Black			.05	.10	.16	.21	.28	.41	.61	1.15	1.65
No. 21-A-54.	Return Bends, Open, Galvanized			.08	.15	.23	.30	.41	.66	.91	1.65	
No. 21-A-55.	Locknuts, Black	.01	.01	.01	.02	.02	.03	.05	.07	.10	.18	.23
No. 21-A-56.	Locknuts, Galvanized	.06	.06	.06	.07	.08	.10	.14	.18	.24	.49	.66
No. 21-A-57.	Unions, Black	.08	.08	.09	.10	.13	.16	.22	.29	.36	.74	.99
No. 21-A-58.	Unions, Galvanized											

## CORRECT WAY TO ORDER.

Reducing Tees.  
1st. Always give end or run openings. Then side openings.

Example.



Order should read: "2x1 1/2 x 1 1/2."  
Reducing Crosses.  
Always mention all openings.  
Reading straight across, then up and down.

Example.



Order should read:  
"2x2x1x1."



# CASING FITTINGS

To be used in connection with our wrought iron lap well casing, and differ from the regular standard cast iron pipe fittings, inasmuch as the Casing Fittings are tapped 14 threads to the inch. They cannot be used in connection with the standard gas or water pipe, nor can the Standard Pipe Fittings be used in connection with Casing on account of the difference in thread. It is, however, possible to furnish Combination Fittings, that is to say, one opening tapped for Standard Iron Pipe thread and the other opening or openings tapped for Casing threads. On all Combination Fittings there will be an extra charge of 25% over the prices quoted below:

Sizes to be used in connection with casing, inside diameter.

	1 1/2	2	2 1/2	3 1/2	4 1/2	5 1/2
No. 21-A-59. Bushings.....	\$0.16	\$0.16	\$0.18	\$0.24	\$0.30	\$0.45
No. 21-A-60. Caps.....	.22	.22	.54	.33	.39	.48
No. 21-A-61. Couplings.....	.10	.10	.20	.27	.36	.46
No. 21-A-62. Crosses.....	.60	.60	.66	.81	1.05	1.50
No. 21-A-63. Crosses (Reducing)...	.75	.75	.83	.99	1.30	1.90
No. 21-A-64. Elbows.....	.30	.30	.33	.40	.54	.75
No. 21-A-65. Elbows (Reducing)...	.47	.47	.52	.55	.67	.90
No. 21-A-66. Elbows (45°).....	.44	.44	.48	.60	.81	1.12

Sizes to be used in connection with casing, inside diameter.

	1 1/2	2	2 1/2	3 1/2	4 1/2	5 1/2
No. 21-A-67. Flange Unions.....	.60	.60	.67	.83	.95	1.35
No. 21-A-69. Plugs.....	.13	.13	.15	.23	.25	.40
No. 21-A-70. Reducers.....	.33	.33	.36	.45	.60	.83
No. 21-A-71. Return Bends (closed)...	.80	.80	.90	1.20	1.50	1.95
No. 21-A-72. Return Bends (open)...	1.00	1.00	1.12	1.35	1.70	2.40
No. 21-A-73. Tees.....	.40	.40	.45	.60	.75	1.07
No. 21-A-74. Tees (Reducing).....	.50	.50	.56	.75	.90	1.31
No. 21-A-75. Y's.....	.90	.90	.97	1.35	1.80	2.40

## Branch Tees and Manifolds

"All openings in branch tees for circulation are tapped right hand. Branch Tees for box coils are always tapped left hand in branches and right hand in back opening. The run and back opening of Branch Tees are tapped same size as branches."

FOR CIRCULATION.

FOR CIRCULATION.

FOR BOX COILS.



Fig. 1.



Fig. 2.

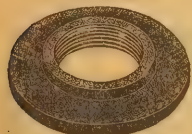


Fig. 3.

1 in. Branch Tees 1 in. or 1 1/2 in. run are 1 1/2 in. inside diameter.  
1 in. Branch Tees 1 1/2 in. or 2 in. run are 2 1/2 in. inside diameter.  
1 1/2 in. Branch Tees are all 2 1/2 in. inside diameter.

1 1/2 in. Branch Tees are all 2 1/2 in. inside diameter.  
2 in. Branch Tees are all 3 1/2 in. inside diameter.  
Always order Branch Tees by size and figure number.

No. of Branches	1 in. Br. Tees 2 1/2 in. Center to Center			1 1/2 in. Br. Tees 3 in. Center to Center			1 1/2 in. Br. Tees 3 1/2 in. Center to Center			2 in. Br. Tees 4 1/2 in. Center to Center			
	1 in. Run.	1 1/2 in. Run.	2 in. Run.	1 1/2 in. Run.	2 in. Run.	2 1/2 in. Run.	1 1/2 in. Run.	2 in. Run.	3 in. Run.	2 in. Run.	2 1/2 in. Run.	3 in. Run.	3 1/2 in. Run.
2	\$0.30	\$0.35	\$0.40	\$0.60	\$0.70	\$0.85	\$0.95	\$1.25	\$1.55	\$1.85	\$2.00	\$2.20	
3	.38	.40	.50	.75	.85	1.00	1.20	1.45	1.65	2.25	2.50	2.75	
4	.40	.45	.60	1.00	1.05	1.20	1.40	1.80	1.90	2.70	3.00	3.25	
5	.50	.50	.65	1.15	1.20	1.35	1.65	2.10	2.20	3.10	3.50	3.75	
6	.60	.60	.75	1.30	1.60	1.75	1.85	2.30	2.55	3.75	4.25	4.75	
7	.70	.80	.85	1.55	1.85	2.15	2.05	2.50	2.75	4.00	4.50	5.00	
8	.80	.90	1.00	1.75	2.05	2.40	2.30	3.25	3.50	4.30	4.75	5.60	
9	.95	1.05	1.20	1.85	2.25	2.55	2.90	3.60	3.75	4.70	5.25	6.00	
10	1.20	1.45	1.55	1.95	2.40	2.70	3.00	3.80	4.00				
11	1.60	1.75	1.85	2.15	2.50	2.90							
12	1.75	1.85	2.00	2.40	2.75	3.15							
13	1.95	2.25	2.15	2.65	3.00	3.50							
14	2.50	2.55	2.65	3.15	3.30								
15	2.75	2.75	2.65										
16	3.00	3.00											

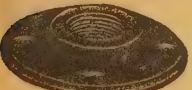


## CAST IRON FLANGES

We can furnish in three ways:  
No. 21-A-200. 1st. "Not Faced or Drilled."  
No. 21-A-201. 2nd. "Faced."  
No. 21-A-202. 3rd. "Faced and Drilled."  
Bolts are extra, (see index).

Inside Diameter Pipe, Inch.	Outside Diameter Flange, Inch.	Price Each, "Not Faced or Drilled."	Price Each, "Faced."	Price Each, "Faced and Drilled."
2	6	\$0.13	\$0.26	\$0.33
2 1/2	7	.19	.46	.66
3	8	.20	.31	.44
3 1/2	9	.27	.53	.73
4	10	.22	.36	.48
4 1/2	11	.23	.60	.82
5	12	.30	.40	.55
5 1/2	13	.35	.72	.99
6	14	.36	.47	.66
6 1/2	15	.45	.93	1.20
7	16	.46	.62	.80
7 1/2	17	.53	1.05	1.32
8	18	.54	.70	.88
8 1/2	19	.64	1.43	1.88
9	20	.66	1.65	1.22
9 1/2	21	.85	1.10	2.14
10	22	.86	1.20	1.43
10 1/2	23	1.50	1.70	2.03
11	24	2.25	3.46	4.07
11 1/2	25	2.26	2.32	2.75
12	26	2.55	4.40	5.28

## CAST IRON FLOOR FLANGES



Drilled for Screws.  
No. 21-A-210.  
Pipe Size, inch..... 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2  
Price, each..... .3c .4c .5c .6c .6 1/2 .7c .11c

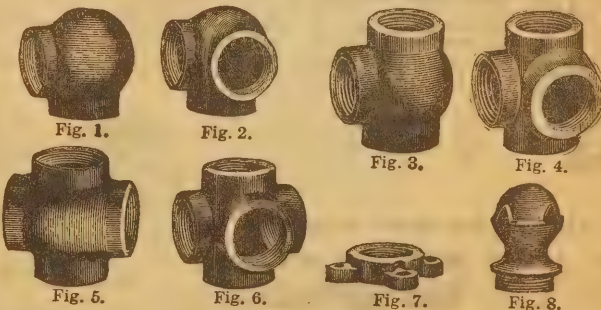
## BARGAIN PRICES ON FLANGED VALVES AND FITTINGS.

We have a large stock of 4 in. to 24 in. flanged pipe fittings, which are thoroughly overhauled and in first-class order, on which we can quote you money-saving prices. See list under miscellaneous column or send us specifications for prices. We also can cut any size pipe to sketch and furnish the necessary fittings. Send us diagram and specifications for special quotation.

## CAST IRON HOOK PLATES

No.	For Pipe Inch.	Spread of Hooks	NUMBER OF HOOKS					
			1	2	3	4	5	6
21-A-79	1	2 1/2	.02 1/2c	.05c	.06 1/2c	.07 1/2c	.09c	.11c
21-A-80	1 1/2	3	.06	.08	.09	.12	.15	
21-A-81	1 1/2	3 1/2	.04 1/2	.08	.12	.16 1/2	.20 1/2	.25
21-A-82	2	4 1/2	.06 1/2	.12	.18 1/2	.26 1/2	.32	.38

RAILING FITTINGS.—(Malleable Iron.)



No. 21-A-96. To be used in connection with Standard Pipe for the purpose of constructing fences and enclosures of all kinds.

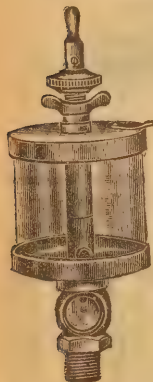
PLEASE READ WITH CARE.—To construct a railing, two pipes high, the upper outlet of all fittings in the lower pipes should be tapped with left hand thread, but unless orders are sent us how outlets are to be tapped all fittings will invariably be furnished tapped right hand. As fittings used for this purpose do not need to be steam or water tight a sufficiently clean thread to screw up well and make a good job can be made by running a left hand tap into any outlet tapped right hand. Prices quoted below are for right hand only. For fittings tapped right and left hand there will be an additional charge of 15 per cent.

Size, inches	1	2	3	4	5	6
Figure No. 1. Elbow.....	\$0.06 1/2	\$0.08	\$0.08 1/2	\$0.15	\$0.19	\$0.30
Figure No. 2. Elbow Side Outlet.....	.08 1/2	.10	.10 1/2	.17	.21	.34
Figure No. 3. Tee.....	.08 1/2	.10	.10 1/2	.17	.21	.32
Figure No. 4. Tee S. Outlet.....	.13	.14	.15	.19	.23	.35
Figure No. 5. Cross.....	.13	.14	.15	.19	.23	.35
Figure No. 6. Cross S. Outlet.....	.15	.16	.17	.21	.24 1/2	.42
Figure No. 7. Floor Flange.....	.06	.06 1/2	.06 1/2	.08 1/2	.12	.17
Figure No. 8. Acorn Ornaments.....	.07	.08	.08 1/2	.10 1/2	.15	.23



**AUTOMATIC GREASE CUP.**Suitable for Bearings of  
All Kinds.**No. 16-A-11.**

Size	Inside Dia. Inches	Shank Pipe Thread	Cap. (grease) Ounce	Price, each
00	1 1/4	1 1/4	1	\$0.39
01	1 1/2	1 1/2	1 1/4	.52
02	1 3/4	1 3/4	1 1/2	.65
03	2	2	2	.85
04	2 1/4	2 1/4	3	1.20
05	2 1/2	2 1/2	4	1.55

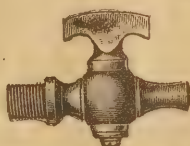
**SIGHT FEED GLASS BODY OIL CUP.**

**No. 16-A-12.** We wish to call your particular attention to the fact that it is not necessary to adjust the feed each time, it being so constructed that when the desired feed is once set it can be stopped and started at will without resetting. This particular feature will save much trouble and annoyance.

Size	Outside Dia. of Glass	Height of Glass	Capacity, Ounces	Shank Pipe Thread	Brass finish Price each
0	1 1/4	1 1/4	1	1 1/4	\$0.50
1	1 1/2	1 1/2	1 1/4	1 1/2	.64
2	1 3/4	1 3/4	2	1 3/4	.70
3	2	2	3	2	.78
4	2 1/4	2 1/4	4	2 1/4	.90
5	2 1/2	2 1/2	5	2 1/2	1.20

**AIR COCKS.****No. 16-A-13.**

Pipe size, inches	Price, each
1/2	\$0.03
3/4	.10
1	.11
1 1/4	.13

**POP SAFETY VALVES.**

**No. 16-A-14.** Brass with phosphor bronze seats for locomotives, hoisting engines, traction outfits and stationary and portable boilers of all kinds. When ordering state at what pressure you require the valve to be set.

Size, inches	Horse Power	Price, each
1/2	8	\$ 1.50
1	12	2.30
1 1/4	18	3.00
1 1/2	20	4.50
2	30	9.50
2 1/2	75	11.00
3	100	

**PATENT IRON GONG WHISTLES.****No. 16-A-15.**

Especially recommended for mills, mines, factories and fire alarm purposes. The tone is entirely different than that of an ordinary whistle and can be distinctly heard from six to eight miles. They are made entirely of iron and are practically indestructible. They have two bells, one short and one long. The sound of this whistle can be changed from shrill to coarse by moving the bells to and from the steam outlet.

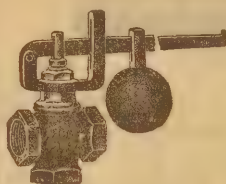


Diam. of gong	4	6	8	10
Length of whistle	22	30	40	47
Size of steam inlet	1 1/2	1 1/2	2	2 1/2
Weight, lbs.	35	83	150	275
Price, each, complete, with whistle valve	\$8.75	\$10.30	\$14.70	\$23.40
Price, each, without whistle valve	\$7.25	\$8.50	\$12.00	\$18.00

**STEAM WHISTLES.**

**No. 16-A-16.** Made of high grade steam metal and furnished complete with spring valves.

Diam. of Ball	Size of pipe con- nection	Price each
1	1 1/2	\$1.00
1 1/2	2	1.25
2	2 1/2	1.35
2 1/2	3	1.90
3	3 1/2	2.25
3 1/2	4	2.75
4	4 1/2	4.00
5	5 1/2	5.10
6	6 1/2	6.7
	8	9.00

**SAFETY VALVES (Ball and Lever.)****No. 16-A-17.**

Size Inches	Price each
1	\$1.10
1 1/4	1.30
1 1/2	1.40
1 3/4	1.70
2	2.00
2 1/2	2.70
3	4.50
3 1/2	5.56

**COMPRESSION GAUGE COCKS.**

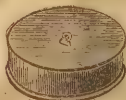
**No. 16-A-19.** With wood handles, brass finished, with stuffing box.

Size, inches	Price, each
1/2	\$0.30
3/4	.33
1	.37

**FLOAT VALVES.**

**No. 16-A-20.** Reversible float outlet valves for automatically controlling the flow of water in reservoirs, stock tanks, cisterns, etc., and is equally effective under high or low pressure. Valve opens with flow instead of against it. Valve will not stick and is not injured by freezing. By reversing the lever a perfect outlet valve is obtained.

Size, inches	Price, each
1/2	\$0.80
1	.90
1 1/2	.95

**COPPER FLOATS.**

**No. 16-A-21.** To be used in connection with Float Valves, steam being attached to the valve lever to open and close automatically.

Size, inches	Price, each
9 1/2 x 2 1/2	\$0.90

**BRASS VALVES.**

All valves described below are brand new, standard brass valves, and are made for special mixtures of metal, making them equally desirable for steam or water purposes. Every valve is guaranteed to be perfect and the best of its kind on the market.

**STANDARD BRASS GLOBE VALVES.****No. 16-A-22.**

Size Inches	Price Each
1/2	\$0.24
3/4	.24
1	.26
1 1/4	.33
1 1/2	.60
1 3/4	.83
2	1.15
2 1/2	1.75

**STANDARD BRASS ANGLE VALVES.****No. 16-A-23.**

Size Inches	Price Each
1/2	\$0.24
3/4	.24
1	.26
1 1/4	.33
1 1/2	.42
1 3/4	.60
2	.83
2 1/2	1.15
3	1.75

**STANDARD HORIZONTAL CHECK VALVES.****No. 16-A-24.**

Size, Inches	Price, each
1/2	\$0.22
3/4	.22
1	.24
1 1/4	.30
1 1/2	.38
1 3/4	.54
2	.75
2 1/2	1.05
3	1.57

**STANDARD VERTICAL CHECK VALVES.****No. 16-A-25.**

Size, Inches	Price, Each
1/2	\$0.24
3/4	.24
1	.26
1 1/4	.34
1 1/2	.41
1 3/4	.59
2	.83
2 1/2	1.15
3	1.75

**STANDARD SWING CHECK VALVES.****No. 16-A-26.**

Size, Inches	Price, Each
1/2	\$0.55
3/4	.65
1	.85
1 1/4	1.00
1 1/2	1.35
2	1.85

**STANDARD GATE VALVES.****No. 16-A-27.**

Size Inches	Price Each
1/2	\$0.40
3/4	.40
1	.42
1 1/4	.54
1 1/2	.75
1 3/4	1.00
2	1.45
2 1/2	2.00

**STANDARD BRASS STEAM COCKS.****No. 16-A-28.**

Size, Inches	Price, Each
1/2	\$0.23
3/4	.28
1	.35
1 1/4	.45
1 1/2	.60
1 3/4	.95
2	1.25
2 1/2	1.85

**THREE-WAY BRASS STEAM COCKS.****No. 16-A-29.**

Size Inches	Price Each
1/2	\$0.70
3/4	.95
1	1.05
1 1/4	1.65
1 1/2	2.00
2	3.00

**STANDARD BRASS GAS SERVICE COCKS.****No. 16-A-30.**

Size, Inches	Price, Each
1/2	\$0.19
3/4	.22
1	.24
1 1/4	.29
1 1/2	.38
1 3/4	.56
2	.78
2 1/2	1.00







**BRAND NEW JENKINS' DISC BRASS GLOBE VALVES.**  
No. 16-A-31.

Size Inches	Price Each
1	\$0.33
1 1/2	.38
2	.48
3	.66
4	.85
5	1.20
6	1.65
8	2.65

**JENKINS' DISC BRASS ANGLE VALVES.**  
No. 16-A-32.

Size Inches	Price Each
1	\$0.33
1 1/2	.38
2	.48
3	.60
4	.85
5	1.20
6	1.65
8	2.65

**JENKINS' DISC BRASS CHECK VALVES.**  
No. 16-A-33.

Size, inches	Price, each
1	\$0.33
1 1/2	.36
2	.39
3	.57
4	.78
5	1.10
6	1.50
8	2.25

**IRON BODY GLOBE VALVES**  
No. 21-A-97. Brass mounted, Plain, Screw Ends.

Size Inches	Price Each
1	\$0.75
1 1/2	.90
2	1.25
3	1.65
4	2.45
6	3.10



**IRON BODY GLOBE VALVES.**  
No. 21-A-98. Brass Mounted, Plain, Flange Ends.

Size Inches	Price Each
2	\$2.30
3	3.00
4	4.00

**IRON BODY ANGLE VALVES.**  
No. 21-A-99. Brass Mounted, Plain, Screw Ends.

Size Inches	Price Each
1	\$0.75
1 1/2	.90
2	1.25
3	1.65
4	2.45
6	3.10



**IRON BODY ANGLE VALVES.**  
No. 21-A-100. Brass Mounted, Plain, Flange Ends.

Size Inches	Price Each
2	\$2.30
3	3.00
4	4.00

**IRON BODY GLOBE VALVES.**  
No. 21-A-101. Brass Mounted, With Yoke, Screw Ends.

Size Inches	Price Each
2	\$4.10
3	5.00
4	6.25
5	8.90
6	12.35



**IRON BODY ANGLE VALVES.**  
No. 21-A-102. Brass Mounted, With Yoke, Screw Ends.

Size Inches	Price Each
3	\$4.10
3 1/2	5.00
4	6.25
5	8.90
6	12.35

**IRON BODY GLOBE VALVES.**  
No. 21-A-103. Brass Mounted, with Yoke, Flange Ends.

Size Inches	Price Each
3	\$4.95
3 1/2	6.00
4	7.40
5	10.25
6	14.50



**IRON BODY ANGLE VALVES.**  
No. 21-A-104. Brass Mounted, with Yoke, Flange Ends.

Size Inches	Price Each
3	\$4.95
3 1/2	6.00
4	7.40
5	10.25
6	14.50

**IRON BODY HORIZONTAL CHECK VALVES.**  
No. 21-A-105. Brass Mounted, Screw Ends.

Size Inches	Price Each
2	\$1.20
2 1/2	2.15
3	2.95
3 1/2	4.00
4	4.60
5	7.25
6	9.90



**IRON BODY HORIZONTAL CHECK VALVES.**  
No. 21-A-106. Brass Mounted, Flange Ends.

Size Inches	Price Each
2	\$1.70
2 1/2	2.72
3	3.75
3 1/2	5.00
4	5.90
5	8.50
6	11.50

**IRON BODY BACK PRESSURE VALVES.**  
No. 21-A-107. Brass Mounted, Screw Ends.

Size Inches	Price Each
2	\$3.60
2 1/2	4.25
3	4.95
3 1/2	6.25
4	7.40
5	11.00
6	14.00

**IRON BODY BACK PRESSURE VALVES.**  
No. 21-A-108. Brass Mounted, Flange Ends.

Size, inches.	3	3 1/2	4	5	6
Price, each.	\$5.75	7.25	8.50	12.90	15.50



**STRAIGHT WAY GATE VALVES**  
No. 21-A-109. Iron Body, Brass Trimmings, Stationary Stem, Screw Ends.

Size Inches	Price Each
2	\$3.30
2 1/2	3.95
3	4.95
3 1/2	5.95
4	6.60
5	8.25
6	9.00

**STRAIGHT WAY GATE VALVES.**  
No. 21-A-110. Iron Body, Brass Trimmings, Stationary Stem, Flange Ends.

Size Inches	Price Each
2	\$3.30
2 1/2	3.95
3	4.95
3 1/2	5.95
4	6.60
5	8.25
6	9.00



**STRAIGHT WAY GATE VALVES.**  
No. 21-A-111. Iron Body Brass Trimmings, Hub Ends.



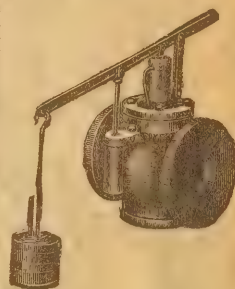
Size Inches	Price Each
2	\$3.30
3	4.95
4	6.60
5	8.25
6	9.00

**PRESSURE REDUCING VALVES.**

This valve is simple in construction, and requires no packing, as there are no complicated parts or springs to break or to be looked after. For controlling the steam heating plants it has no equal. When ordering be particular to give boiler pressure and pressure to be reduced. Unless otherwise stated screw ends will invariably be furnished.

**No. 21-A-112. Screw Ends.**  
No. 21-A-113. Flange Ends.

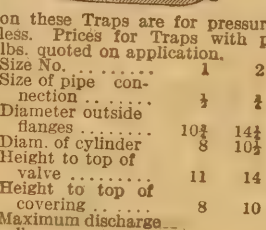
Size, inches	1	1½	1¾	2	2½
Price, each	\$13.80	14.40	15.00	18.00	21.00
Size, inches	3	4	5	6	
Price, each	\$25.00	36.00	45.00	45.60	



**NASON PATTEREN STEAM TRAPS.**  
No. 21-A-114.

When pressures exceeding 80 lbs. are to be used, or if the pressure is always less than 30 lbs. a special note should be made of this fact in order that the traps may be fitted with valves of smaller or larger area than is common and otherwise adjusted to their particular work. The prices quoted on these Traps are for pressures of 100 lbs. and less. Prices for Traps with pressure above 100 lbs. quoted on application.

Size No.	1	2	3	4	5
Size of pipe connection	1	1 1/2	2	3	4
Diameter outside flanges	10 1/2	14 1/2	15 1/2	19	24 1/2
Diam. of cylinder	8	10 1/2	12	14	18
Height to top of valve	11	14	16 1/2	18 1/2	23 1/2
Height to top of covering	8	10	12	14	16 1/2
Maximum discharge lbs. per minute	2	5	8	12	20
Greatest number of sq. ft. of surface to which it should be applied	350	900	1400	2000	3500
Greatest number of lineal ft. of 1 inch pipe surface to which it should be applied	1050	2700	4200	6000	10500
Price, each	\$7.00	8.80	12.00	19.00	30.00



Valves shown on this page are brand new. You can make a big saving by using our Overhauled Second-Hand Valves, which are fully guaranteed.



# INJECTORS AND LUBRICATORS

## LEADER INJECTOR

**No. 16-A-1.** This Injector is fast becoming the most popular machine on the market. It has no movable parts in its internal construction, no loose valves, rings or springs to get out of order, and embodies simplicity, durability, neatness of design, great range of work under the various conditions required of injectors, high or low steam, long or short lift, without any adjustment or change of tubes, or Globe Valve in Suction Pipe.

Will lift water from well or stream, heating and forcing into boilers at about 200 degrees temperature, whether engine is running or not. Operated by one lever; will lift water from 1 to 22 feet vertically; horizontal distance not so important when suction pipe is air tight.

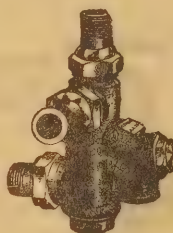


No. of Injector	SIZE OF PIPES		Horse Power	Gallons per hour, 60 lbs. Steam	Price Each
	Steam	Suction and Feed			
1	1	1	3 to 7	60	\$ 4.00
2	1	1	7 to 10	90	4.50
3	1	1	12 to 18	150	5.50
4	1	1	18 to 25	220	6.25
5	1	1	25 to 35	300	7.50
6	1	1	35 to 45	400	8.75
7	1	1	45 to 60	500	10.00
8	1	1	60 to 70	600	11.25
9	1	1	70 to 90	750	13.75
10	1	1	100 to 125	1000	16.25
11	1	1	125 to 150	1300	18.75
12	1	1	150 to 200	1800	22.50

### THE PENBERTHY IMPROVED AUTOMATIC INJECTOR.

**No. 16-A-2.** Price List of Injectors, Including Strainers.

Size No.	Price	Gal. per H. 65 lbs Pres.	Size of Pipe Con.	Horse Power	Size No.	Price	Gal. per H. 65 lbs Pres.	Size of Pipe Con.	Horse Power
00	\$ 4.50	60	4 to 8	8	D	\$13.75	750	1 1/2	72 to 93
A	4.50	120	8 to 12	12	DD	15.00	920	1 1/2	93 to 120
AA	5.00	165	12 to 16	16	E	18.75	1300	1 1/2	120 to 160
B	6.25	250	16 to 28	28	EE	22.50	1740	1 1/2	160 to 220
BB	7.50	340	28 to 40	40	F	27.50	2270	2	220 to 290
C	10.00	475	40 to 57	57	FF	31.25	2800	2	290 to 308
CC	11.25	575	57 to 72	72					



### CHICAGO AUTOMATIC INJECTOR.

**No. 16-A-3.** This machine is designed in view of relieving all general conditions now found in traction and stationary engineering. All automatic injectors heretofore constructed have been strictly limited as to their ability to operate high temperatures of feed water and high pressures of steam. The Chicago Automatic is constructed upon entirely new principles which greatly increases its range in both these directions, and at the same time does away with that sensitiveness that is so often found in machines of this class. In construction it is the simplest automatic injector ever put on the market, consisting of three tubes, a body or shell, and one check valve and bushing. All of these parts are held to place by screw thread joints and cannot drop out and become lost. Owing to the extreme simplicity of its construction the Chicago is more easily repaired and cleaned than any other automatic injector. Both the steam jet and forcing tube may be removed by the use of monkey wrench and when cleaning becomes necessary it may be accomplished without breaking any pipe joints

or removing injector from boiler. This machine will start low from 15 to 20 lbs. steam pressure on 4 ft. lift and will work high from 135 to 145 lbs. steam pressure. Will work on a 20 to 22 ft. lift with a 60 to 90 lbs. steam pressure. Will work water 120 to 125 degrees hot. Is perfectly automatic at all steam pressures within its range. Every injector is guaranteed to be satisfactory or money refunded.

Size	Pipe Con. Inches	Cap. per Hour Max.	H. P based on Ordinary Tub. Boiler	Price	Size	Pipe Con. Inches	Cap. per Hour Max.	H. P based on Ordinary Tub. Boiler	Price
No. 00	80	4 to 11	\$ 3.25	No. 3	1 1/2	355	20 to 47	\$6.50	
No. 0	135	10 to 19	3.60	No. 4	1	475	40 to 64	8.50	
No. 1	180	15 to 24	4.00	No. 5	1	600	45 to 80	9.50	
No. 2	260	18 to 34	5.00	No. 6	1 1/2	800	55 to 106	11.00	

### CHICAGO EJECTOR OR JET PUMP.

**No. 16-A-4.** For raising, forcing and conveying liquids of any kind and for use of mines, breweries, quarries, etc., the Chicago Ejector will prove superior to any Jet Pump. The Chicago Ejector is neat in appearance, is strongly made of the best steam metal, and is extremely simple in its construction. The jets are made of special composition bronze, which is particularly adapted to withstand the action of water containing sand and acid substances, and which these machines are frequently called upon to handle. With an 80 lb. steam pressure this ejector will lift 24 feet and elevate it 40 to 60 feet. With higher steam pressure the elevation will be proportionately greater.

Size	Steam, Inch.	Suction, Inches	Delivery, Inches	Cap. gals. per hour	Price
No. 1	1	1	1	300	\$1.75
No. 2	1	1	1	500	2.25
No. 3	1	1	1	800	3.25
No. 4	1	1	1	1300	4.25
No. 5	1	2	1 1/2	2000	5.50

### CHICAGO DOUBLE CONNECTION SIGHT FEED LUBRICATOR.

For Stationary Engine.

**No. 16-A-5.** The condenser valve is a separate piece and not part of the body, thus insuring ease of cleaning and small cost for repairs. It is provided with an ample heating chamber, which insures the oil remaining fluid even when exposed to the most severe weather. The lower feed iron is provided with a drain stem by which the sight glass may be blown out and cleaned without removing from lubricator. Each lubricator is subjected to a rigid test before leaving the factory and guaranteed to work perfectly if connected and operated properly.

Size	1 pt.	1 pt.	1 pt.	1 qt.	1 gal.
For Cylinder, inches	Under 10	10 to 12	12 to 18	18 to 30	30 and over
Pipe Thread on Support	1 inch	1 inch	1 inch	1 inch	1 inch
Arm	1 inch	1 inch	1 inch	1 inch	1 inch
Price each, brass finish	\$2.90	\$3.15	\$4.25	\$5.70	\$8.25



### CHICAGO SINGLE SIGHT FEED CONNECTION LUBRICATOR.

**No. 16-A-6.** For stationary and traction engines, steam pumps, air compressors and all classes of steam cylinders.

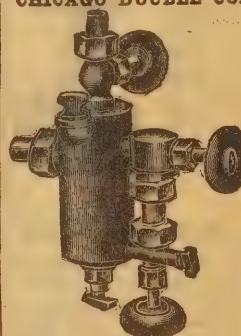
This lubricator will feed the heaviest oils even when exposed to the severest weather and when once adjusted will feed regularly down to the last drop no matter whether the engine is working light or heavily loaded. The steam can be shut off from all parts of the lubricator and any part be repaired, or valve repacked, without stopping engine or shutting off pressure from steam pipe. The heating chamber in this lubricator extends half way around the cup, thus keeping the oil at the proper consistency when used in cold places. The Chicago Lubricator will start instantly and feed regularly.

Size, ..... 1 pt. 1 pt. 1 pt. 1 qt. 1 gal.  
Pipe thread, in. 1 1/2 1 1/2 1 1/2 1 1/2 1 1/2  
Price, each, ..... \$2.45 \$2.85 \$3.45 \$3.85 \$5.20  
Brass finish, ..... \$2.45 \$2.85 \$3.45 \$3.85 \$5.20

### CHICAGO DOUBLE CONNECTION SIGHT FEED LUBRICATOR.

**No. 16-A-7.** For steam pumps and stationary and portable engines.

This is a medium priced, reliable lubricator for use on steam pumps and stationary engines which are exposed to the cold, and possesses all the advantages and features as contained in the Chicago single connection lubricator of the same style manufactured.

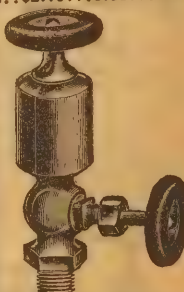


Size, ..... 1 pt. 1 pt. 1 pt. 1 qt. 1 gal.  
Pipe thread, in. 1 1/2 1 1/2 1 1/2 1 1/2 1 1/2  
Price, each, ..... \$2.25 \$2.65 \$2.75 \$3.85 \$5.00  
Brass finish, ..... \$2.25 \$2.65 \$2.75 \$3.85 \$5.00

### STANDARD LUBRICATORS.

**No. 16-A-8.** Made of the best steam metal, wood handles, and intended for those who desire a cheap reliable lubricator.

Size	Pipe Thread	Price Each
Inches	Inches	
1	1	\$0.50
1 1/2	1 1/2	.55
2	2	.60
2 1/2	2 1/2	.65
3	3	.73
3 1/2	3 1/2	.81
4	4	.93
4 1/2	4 1/2	1.06
5	5	1.19



### BRASS OIL CUPS. Polished Brass. No. 16-A-9.

Diam. of body	Pipe Size	Price Each
Inches	Inches	
1	1	\$0.07
1 1/2	1 1/2	.10
2	2	.15
2 1/2	2 1/2	.24
3	3	.45



### "PERFECTION" PLAIN BRASS GREASE CUPS. No. 16-A-10.

Size	Inside Dia. Inches	Shank Thread	Cap. (approx.) oz.	Price, each
00	1 1/2	1 1/2	1	\$0.11
0	1 1/2	1 1/2	1	.14
1	2	2	2	.18
2	2 1/2	2 1/2	3 1/2	.25
3	3	3	5	.38
4	3 1/2	3 1/2	5	.58





# KING GOVERNOR, \$8.50.

Most sensitive and substantial Governor on the market. Equipped with POSITIVE AUTOMATIC STOPS. Sold on thirty days' trial.



No. 4-A-358.  
Flange connection.

## KING GOVERNORS.

We guarantee that this is the most sensitive, quickest action and most durable Governor manufactured. It is neat in design and first class in workmanship and material. It will give the closest possible regulation and the least possible consumption of steam. Is built in a substantial manner, and made for every day service, the wearing parts all being made of the best metal. This Governor is equipped with automatic stop, which is positive. We sell this Governor on 30 days trial, and if at the end of that time you do not find it entirely satisfactory you have permission to return it to us and we will promptly refund the amount paid thereon. We can furnish you either flange or screw connections. When ordering be sure and state what style connection is required, otherwise flange connections will be shipped in every instance.



No. 4-A-359.  
Screw connection.

Size of Governor	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5
Diam. of Base Flange	4 1/2	5	5 1/2	6 1/2	7	8	9	10	11
Diam. of Side Flange	4 1/2	5	5 1/2	6 1/2	7	8	9	10	11
Height in Inches	16 1/2	19	22	24	25	32	34 1/2	37	42
Radius of Balls	2 1/2	3 1/2	3 1/2	4 1/2	5	5 1/2	5 1/2	6	6 1/2
Length of Shaft	7	7 1/2	8 1/2	9	12	14	16	16	17
Diam. of Pulley	1 1/2	1 1/2	2	2	2 1/2	3	3 1/2	3 1/2	4
Width of Belt	1	1 1/2	1 1/2	2	2 1/2	3	3	3	3
Center of Body to Side Flange	2 1/2	3 1/2	3 1/2	3 1/2	5	5 1/2	6	7 1/2	8 1/2
Center of Body to Base Flange	2 1/2	3 1/2	3 1/2	4 1/2	4 1/2	5 1/2	6 1/2	7 1/2	8 1/2
Number of Revolutions	625	525	475	425	375	350	320	290	250
Price, each	\$ 8.50	9.50	11.00	12.50	15.00	20.00	25.00	30.00	45.00

## ROLLER TUBE EXPANDERS. Dudgeon Pattern.



No. 4-A-360. This Expander has a solid body, thus avoiding constant breaking of cap screws. It is made with great care, of the best material and finely finished. Sizes given are for outside diameter tubes. If your tube measures 2 inches outside diameter you would then require a 2 inch Expander.

Size Inches	Price Each	Size Inches	Price Each
1 1/2	\$1.34	2 1/2	\$1.65
1 1/2	1.36	3	2.45
1 1/2	1.38	3 1/2	3.00
2	1.40	4	3.75
2 1/2	1.60		

## BEADING TOOL.



No. 4-A-361. This for beading end of boiler tubes.  
Price, each.....\$0.50

## SELF FEED TUBE CUTTER.



No. 4-A-364. A tool with which tubes can be cut off either inside or outside of the boiler head. The entire tube is made of special steel with a view of giving the very best wearing qualities. The feed handle is swivel, in order to get close to the boiler shell. This tool will pay for itself in cutting out oil tubes in a 60 inch boiler. Full directions with each cutter.

Size Inches	Price Each	Size Inches	Price Each
2	\$ 9.10	3	\$13.00
2 1/2	9.10	3 1/2	14.00
2 1/2	9.10	4	15.00
2 1/2	10.40		

## ENGINEERS' FAVORITE FLUE SCRAPER.



No. 4-A-362. Has adjustable screw and good cutting edges that enables the operator to clean flues thoroughly. Sizes given are for tubes outside diameter.

Size Inches	Price Each	Size Inches	Price Each
1 1/2	\$0.40	2 1/2	\$0.56
1 1/2	.44	3	.57
2	.45	3 1/2	.75
2 1/2	.50	4	.90

## IMPROVED EXPANSION FLUE BRUSHES.



No. 4-A-363. Made of malleable iron and tempered steel. Sizes given are for flues outside diameter.

Size Inches	Price Each	Size Inches	Price Each
1 1/2	\$0.65	2 1/2	\$0.86
1 1/2	.68	3	1.05
2	.69	3 1/2	1.22
2 1/2	.78	4	1.38

## WATER GAUGES.

No. 4-A-368 1/2. With brass body, iron wheels, two guards to protect glass tube.

Pipe Size, Inches	Glass Inches	Price Each
1/2	1x10	\$0.70
1/2	1x12	.75
1/2	1x16	1.25

## STEAM GAUGES.

No. 4-A-366. Japanned iron case, brass ring, complete with cock. They should not be used on traction or portable rigs. Always use a syphon with all steam gauges. These gauges are guaranteed to register accurately up to 200 lbs. Each gauge is packed in a wooden box, Size Dial,  
Inches 3 1/2 4 1/2 5  
Price,  
each.....\$0.98 1.05 1.10



## STEAM GAUGE SYPHON.



No. 4-A-367. A syphon should be used in connection with all steam gauges.  
Size, inches Price, each  
1.....\$0.12

## STEAM GAUGE FOR TRACTION ENGINE.

No. 4-A-368. For use in connection with traction and portable rigs. Made with double spring and will stand jarring and register accurately. Size 5 inches; graduated to 300 lbs.  
Price.....\$1.80



## GAUGE GLASS CUTTER.

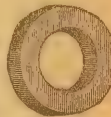


No. 16-A-18. A satisfactory tool which will save its cost many times over.  
Price, each.....\$0.25

## RUBBER GAUGE GLASS WASHERS.

No. 4-A-370.

Price per doz.  
For 1/2 inch gauge glass.....\$0.06  
For 3/4 inch gauge glass......07  
For 1 inch gauge glass......08



## GENUINE SCOTCH GLASS TUBES FOR WATER GAUGES.

No. 4-A-369.



Lgth. in.	Price for six in.	Price per doz. in.	Price for six in.	Price per doz. in.	Price for six in.	Price per doz. in.
10	\$0.20	\$0.39	\$0.24	\$0.39	\$0.28	\$0.48
11	.22	.43	.25	.43	.27	.48
12	.24	.46	.26	.45	.32	.58
13	.28	.54	.28	.53	.38	.63
14	.28	.55	.29	.54	.38	.68
15	.30	.58	.30	.57	.42	.73

## TUBE FERRULES.



No. 16-A-369 1/2. Seamless Copper Boiler Tube Ferrules. Used on ends of boiler tubes to make a perfect fit and a tight job.

For Boiler Tubes Outside Diameter.	Width Inches.	Thickness of Copper ins.	Price Ea.
1 1/2	1 1/2	1-32	.03
1 1/2	1 1/2	1-32	.03 1/2
1 1/2	1 1/2	1-32	.04
2	1 1/2	1-32	.05
2 1/2	1 1/2	1-32	.06
2 1/2	1 1/2	1-32	.07
3	1 1/2	1-32	.12
3 1/2	1 1/2	1-32	.12
4	1 1/2	1-32	.14



# MALLEABLE PIPE STOCKS AND SOLID STEEL DIES

## \$2.45

No. 4-A-371. In the manufacture of the dies it has been our aim to furnish a die of unusual cutting qualities. To do this it has been necessary to use a higher grade of steel than has heretofore been employed in the manufacture of pipe dies. We will guarantee that every die has a perfect clearance and will cut a clean thread. When cutting threads use plenty of oil. Lard oil is recommended for this purpose.

### Set No. 0.

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $\frac{3}{4}$   $1$   $1\frac{1}{2}$   
Dimensions of dies, inches  $2\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$   
Price complete per set, with dies. **\$2.45**

### Set No. 1.

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $\frac{3}{4}$   $1$   $1\frac{1}{2}$   
Dimension of dies, inches  $2\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$   
Price per set, complete with dies. **\$2.95**

### Set No. 1 $\frac{1}{2}$ .

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$   
Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$   
Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

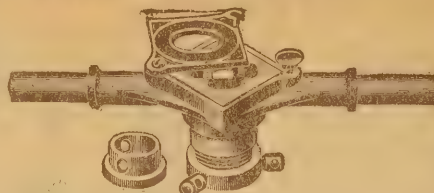
Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$

Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$

Price per set, complete with dies. **\$2.65**



### Set No. 1 $\frac{1}{2}$ .

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$   
Dimension of dies, inches  $3 \times 3 \times \frac{1}{2}$   
Price per set, complete with dies. **\$2.70**

### Set No. 2.

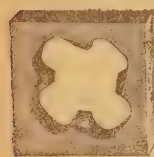
Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$   $2$   
Dimension of dies, inches  $4 \times 4 \times \frac{1}{2}$   
Price per set, complete with dies. **\$3.90**

### Set No. 3.

Pipe size of dies, regular set, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$   $2$   $3$   
Dimension of dies, inches  $5 \times 5 \times 1\frac{1}{2}$   
Price per set, complete with dies. **\$11.50**

### EXTRA DIES AND GUIDES.

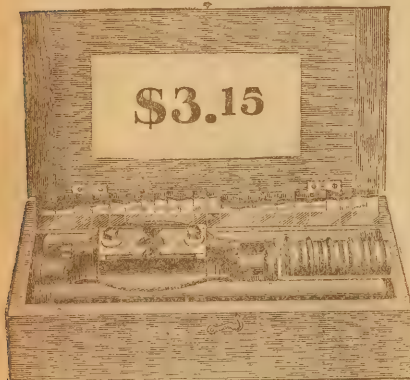
No. 4-A-372. These can be furnished either right or left hand thread. In ordering, be sure and state which. Unless otherwise specified dies with right hand threads will invariably be shipped.



Dimension of Dies, inches	Pipe Size of Dies	Price of Dies	Price of Guides
2 x 2 x $\frac{1}{2}$	$\frac{1}{2}$ $\frac{3}{4}$ $1$ $1\frac{1}{2}$	<b>\$0.33</b>	<b>\$0.07</b>
2 1/2 x 2 1/2 x $\frac{1}{2}$	$\frac{1}{2}$ $\frac{3}{4}$ $1$ $1\frac{1}{2}$	<b>.42</b>	<b>.08</b>
3 x 3 x $\frac{1}{2}$	$\frac{1}{2}$ $\frac{3}{4}$ $1$ $1\frac{1}{2}$ $2$	<b>.65</b>	<b>.10</b>
4 x 1 x $\frac{1}{2}$	$\frac{1}{2}$ $1$ $1\frac{1}{2}$ $2$	<b>.83</b>	<b>.12</b>
5 x 5 x $1\frac{1}{2}$	$\frac{1}{2}$ $1$ $1\frac{1}{2}$ $2$ $3$ (right hand only)	<b>2.50</b>	<b>.27</b>



## ARMSTRONG PATTERN ADJUSTABLE STOCK AND DIES FOR THREAD- ING PIPE.



## \$3.15

No. 4-A-373. The dies are standard in size, and are easily adjusted to the variations and size of pipe. The taper at the entrance of the first few threads is greater in degree than the standard taper, thus forcing six of the teeth of the die to do the work of the cutting instead of two or three as in the ordinary die. This causes them to start on the pipe very easily, even though it is burred considerably. Each set is finely finished and packed in a hard wood box.

Set No. 2. Pipe Size of dies, inches  $\frac{1}{2}$   $\frac{3}{4}$   $1$   $1\frac{1}{2}$   
Price per set, complete with dies. **\$3.15**

Set No. 2 $\frac{1}{2}$ . Pipe size of dies, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$   
Price per set, complete with dies. **\$3.20**

Set No. 3. Pipe size of dies, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$   $2$   
Price per set, complete with dies. **\$5.00**

Set No. 6. Pipe size of dies, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$   $2$   $3$   
Price per set, complete with dies. **\$13.00**

Set No. 7. Pipe size of dies, inches  $\frac{1}{2}$   $1$   $1\frac{1}{2}$   $2$   $3$   $4$   
Price per set, complete with dies. **\$15.00**

## BROWN'S ADJUSTABLE PIPE TONGS.

## 58c



No. 4-A-377. Made of solid steel, drop forged. Size No. 1 1 $\frac{1}{2}$  2 3 4  
Takes pipe sizes, in.  $\frac{1}{2}$  to  $\frac{3}{4}$  to  $1$  to  $1\frac{1}{2}$  to  $1\frac{1}{2}$  to  $2$  to  $2\frac{1}{2}$  to  $3$   
Price, each. **\$0.68** **.69** **.82** **1.15** **2.55**

## TRIMO PIPE WRENCHES.

## 57c



No. 4-A-374. Drop forged from bar steel, removable jaw and nut. Are made with round top and bottom, threads guaranteed not to strip or burr. All the parts are interchangeable and can be renewed at small expense.

Lgh	Takes Pipe	Price	Lgh	Takes Pipe	Price
In.	In.	Each	In.	In.	Each
6....	$\frac{1}{2}$ to $\frac{3}{4}$	<b>\$0.57</b>	18....	$\frac{1}{2}$ to $2$	<b>\$1.18</b>
8....	$\frac{1}{2}$ to $1$	<b>.60</b>	24....	$\frac{1}{2}$ to $2\frac{1}{2}$	<b>1.75</b>
10....	$\frac{1}{2}$ to $1\frac{1}{2}$	<b>.68</b>	36....	$\frac{1}{2}$ to $3\frac{1}{2}$	<b>4.25</b>
14....	$\frac{1}{2}$ to $1\frac{1}{2}$	<b>.88</b>	48....	$1$ to $5$	<b>6.40</b>

## STILSON PIPE WRENCHES.

## 57c



No. 4-A-375. Drop forged from bar steel. All parts interchangeable and every wrench fully guaranteed.

Lgh	Takes Pipe	Price	Lgh	Takes Pipe	Price
In.	In.	Each	In.	In.	Each
6....	$\frac{1}{2}$ to $\frac{3}{4}$	<b>\$0.57</b>	18....	$\frac{1}{2}$ to $2$	<b>\$1.15</b>
8....	$\frac{1}{2}$ to $1$	<b>.58</b>	24....	$\frac{1}{2}$ to $2\frac{1}{2}$	<b>1.75</b>
10....	$\frac{1}{2}$ to $1\frac{1}{2}$	<b>.67</b>	36....	$\frac{1}{2}$ to $3\frac{1}{2}$	<b>4.25</b>
14....	$\frac{1}{2}$ to $1\frac{1}{2}$	<b>.88</b>	48....	$1$ to $5$	<b>6.25</b>

## BROCK'S NEW STANDARD PIPE WRENCH.

### No. 4-A-376.



Size, inches	1	2	3	3 $\frac{1}{2}$	4
Length, inches	20	27	37	44	50
Capacity, inches	$\frac{1}{2}$ to $2$	$1\frac{1}{2}$ to $3$	$\frac{1}{2}$ to $6$	$1$ to $8$	$\frac{1}{2}$ to $10$
Price, each	<b>\$1.58</b>	<b>2.34</b>	<b>3.23</b>	<b>4.45</b>	<b>5.50</b>

## PIPE TAPS AND REAMERS.

Made of high grade tool steel, each tool fully guaranteed.

No. 4-A-378. Pipe Tap.

No. 4-A-379. Pipe Reamer.

Size, Inches Price, each

$\frac{1}{2}$   $\frac{3}{4}$   $1$   $1\frac{1}{2}$   $2$   $2\frac{1}{2}$   $3$   $3\frac{1}{2}$   $4$   $4\frac{1}{2}$   $5$   $5\frac{1}{2}$   $6$   $6\frac{1}{2}$   $7$   $7\frac{1}{2}$   $8$   $8\frac{1}{2}$   $9$   $9\frac{1}{2}$   $10$   $10\frac{1}{2}$   $11$   $11\frac{1}{2}$   $12$   $12\frac{1}{2}$   $14$   $16$   $18$   $20$   $22$   $24$   $26$   $28$   $30$   $32$   $34$   $36$   $38$   $40$   $42$   $44$   $46$   $48$   $50$   $52$   $54$   $56$   $58$   $60$   $62$   $64$   $66$   $68$   $70$   $72$   $74$   $76$   $78$   $80$   $82$   $84$   $86$   $88$   $90$   $92$   $94$   $96$   $98$   $100$

$\frac{1}{2}$   $\frac{3}{4}$   $1$   $1\frac{1}{2}$   $2$   $2\frac{1}{2}$   $3$   $3\frac{1}{2}$   $4$   $4\frac{1}{2}$   $5$   $5\frac{1}{2}$   $6$   $6\frac{1}{2}$   $7$   $7\frac{1}{2}$   $8$   $8\frac{1}{2}$   $9$   $9\frac{1}{2}$   $10$   $10\frac{1}{2}$   $11$   $11\frac{1}{2}$   $12$   $12\frac{1}{2}$   $14$   $16$   $18$   $20$   $22$   $24$   $26$   $28$   $30$   $32$   $34$   $36$   $38$   $40$   $42$   $44$   $46$   $48$   $50$   $52$   $54$   $56$   $58$   $60$   $62$   $64$   $66$   $68$   $70$   $72$   $74$   $76$   $78$   $80$   $82$   $84$   $86$   $88$   $90$   $92$   $94$   $96$   $98$   $100$

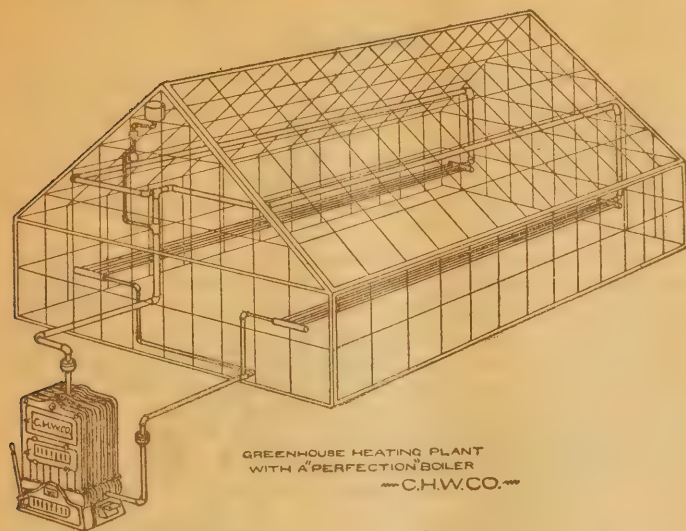
$\frac{1}{2}$   $\frac{3}{4}$   $1$   $1\frac{1}{2}$   $2$   $2\frac{1}{2}$   $3$   $3\frac{1}{2}$   $4$   $4\frac{1}{2}$   $5$   $5\frac{1}{2}$   $6$   $6\frac{1}{2}$   $7$   $7\frac{1}{2}$   $8$   $8\frac{1}{2}$   $9$   $9\frac{1}{2}$   $10$   $10\frac{1}{2}$   $11$   $11\frac{1}{2}$   $12$   $12\frac{1}{2}$   $14$   $16$   $18$   $20$   $22$   $24$   $26$   $28$   $30$   $32$   $34$   $36$   $38$   $40$   $42$   $44$   $46$   $48$   $50$   $52$   $54$   $56$   $58$   $60$   $62$   $64$   $66$   $68$   $70$   $72$   $74$   $76$   $78$   $80$   $82$   $84$   $86$   $88$   $90$   $92$   $94$   $96$   $98$   $100$

$\frac{1}{2}$   $\frac{3}{4}$   $1$   $1\frac{1}{2}$   $2$   $2\frac{1}{2}$   $3$   $3\frac{1}{2}$   $4$   $4\frac{1}{2}$   $5$   $5\frac{1}{2}$   $6$   $6\frac{1}{2}$   $7$   $7\frac{1}{2}$   $8$   $8\frac{1}{2}$   $9$   $9\frac{1}{2}$   $10$   $10\frac{1}{2}$   $$



# A Heating Plant For Your Greenhouse

## We Can Quote You a Price That Will Surprise You



### We Guarantee Every Plant We Sell

We make a specialty of greenhouse heating plants. We have furnished all of the material and made all the plans for some of the largest greenhouses in the country.

### We Furnish Everything

to the very last detail that you will require, and especially are we in position to quote you very low prices at this time, owing to the fact that we recently bought up, at a Receivers' Sale, an enormous quantity of greenhouse fittings which we are now dis-

posing of at prices that do not represent the actual cost of manufacture.

By working in these fittings on your plant and our 4-inch threaded boiler flues, together with a good sound Horizontal Tubular or Fire Box Boiler, we can save you anywhere from 50 to 75 per cent on your greenhouse heating plant.

## To Beginners—Are You Starting in the Business?

We can make your capital go further than you ever estimated. Let us know the size house you are building. Send us a sketch, mark the benches and the total square feet of glass, also where you want boiler located. Our engineers will figure a plant for you and we will send specifications and a complete proposition by return mail. There is no better paying business than a good greenhouse. We make it possible to start with a limited capital.

## To Greenhouse Men

Is your present capacity too small? If it is, you are losing good business. Increase it. It is not hard to add on another house or two. We can arrange it so that you will not have to disturb one fitting on your present greenhouse and if your present boiler is too small, we can furnish you with a larger one at a very reasonable figure.

We furnish complete plans and loan you tools if you desire. Our very clear instructions and plans which are almost pictures, are very easy to follow and any ordinary mechanic can do the work for you.

## Mercury Hot Water System for Greenhouses

We are in a position to furnish the most up-to-date system of hot water heating known to engineering science at the present time.

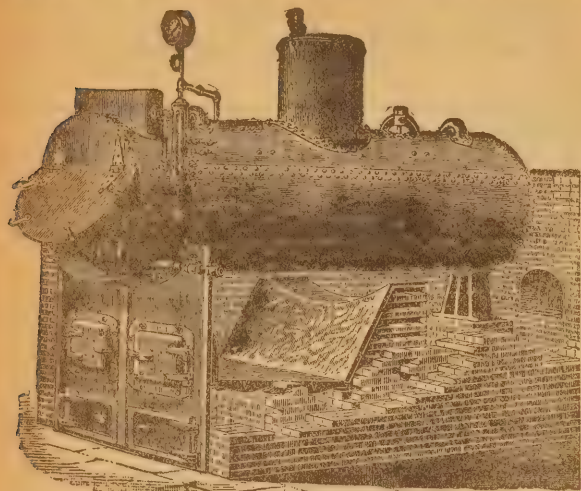
This system combines all the advantages of a steam and hot water plant and does away with the disadvantages of both. The circulation of the system is increased over 50 per cent by using our mercury heat circulator, and by getting a much higher temperature in the water the efficiency of the plant is advanced to the highest possible point.

If your present heating plant is not large enough to heat your greenhouse properly, add one of our mercury heat circulators to your system and you will be surprised at the change which will result.

We furnish complete instructions with each mercury heat circulator showing how to make all connections, etc.



# Low Priced Greenhouse Heating Plants



**Horizontal Tubular Boilers.**

These boilers have never yet been surpassed for fuel economy and simplicity. The most expert authorities admit that this boiler stands alone on these two points.

We back this form of boiler for greenhouse heating, against any of the special boilers on the market at the present time. The only advantage that can be claimed in favor of these special boilers is the fact that they can be set lower. We can show you how to arrange these Tubular boilers with a low setting and we will guarantee just as good results.

## Fire Box Boilers.

We always have on hand a large assortment of Fire Box Boilers. This form of boiler is the most economical you can install, the entire fire box being surrounded by water. Every heat unit in the fire is taken up. These boilers can be set as shown in this illustration so that the entire outside of the boiler is used as heating surface, or, you can arrange it that no brick work whatever is required, the boiler being entirely self-contained. This latter arrangement would get away from any further expense in setting and there would be no further cost, except the actual cost of the boiler.

### For Small Plants.

For a small greenhouse where it is impossible to use these larger forms of boiler, we recommend our small cast iron Perfection boilers. You could not possibly use a better boiler. Cracking of the casting is an impossibility in a small boiler of this kind. They are compact, self contained and easily handled. These boilers have a very deep fire pot and hold fire for twelve hours at a time.

### Pipe.

We always have on hand several thousand feet of second hand pipe and boiler tubing of every description. Every length of this pipe that we send out for further service is carefully inspected before it leaves our plant. All defective lengths are carefully cut out and discarded. We furnish all our standard black wrought iron pipe with brand new threads and couplings, no old threads are allowed to pass through. This pipe is for all practical purposes just as good as brand new. You can make a large saving by using this material and when your plant is installed, it will give you just as good satisfaction as if it were brand new.

## Boiler Flues for Greenhouse Heating.

We are the originators of this idea. As a heat radiator and economical piping for greenhouses, this tubing has never yet been surpassed. We have already sold hundreds of thousand of feet of it to greenhouse men and it gives universal satisfaction. We can furnish this tubing with threads and couplings and it can be made up just like standard pipe.

## Greenhouse Fittings.

We can save you 40 per cent on your plant on the fittings alone, owing to the very low prices that we can quote you on these fittings. If you will need any fittings, be sure and send us a list and get our figures before taking any action.

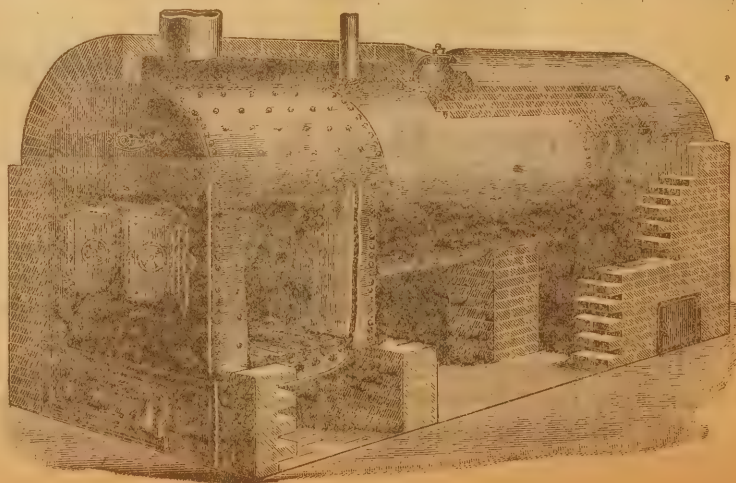
## A Boon to Greenhouse Men.

### Boilers.

From the very nature of our business, our ability to furnish you with a good boiler for a price before unheard of, is undisputed. The entire country is our field. We buy up boilers everywhere. There is a constant stream of them coming in and going out of our plant all the time. We always have in our yard from one to two hundred to select from. Some of these have seen only one year service and a large percentage of them are only three years old.

We would rather lose an order any time than send out a boiler that would not give satisfaction. Every boiler which comes into our plant is immediately subjected to a rigid inspection. If it does not stand up to the requirement, it is consigned to the scrap pile.

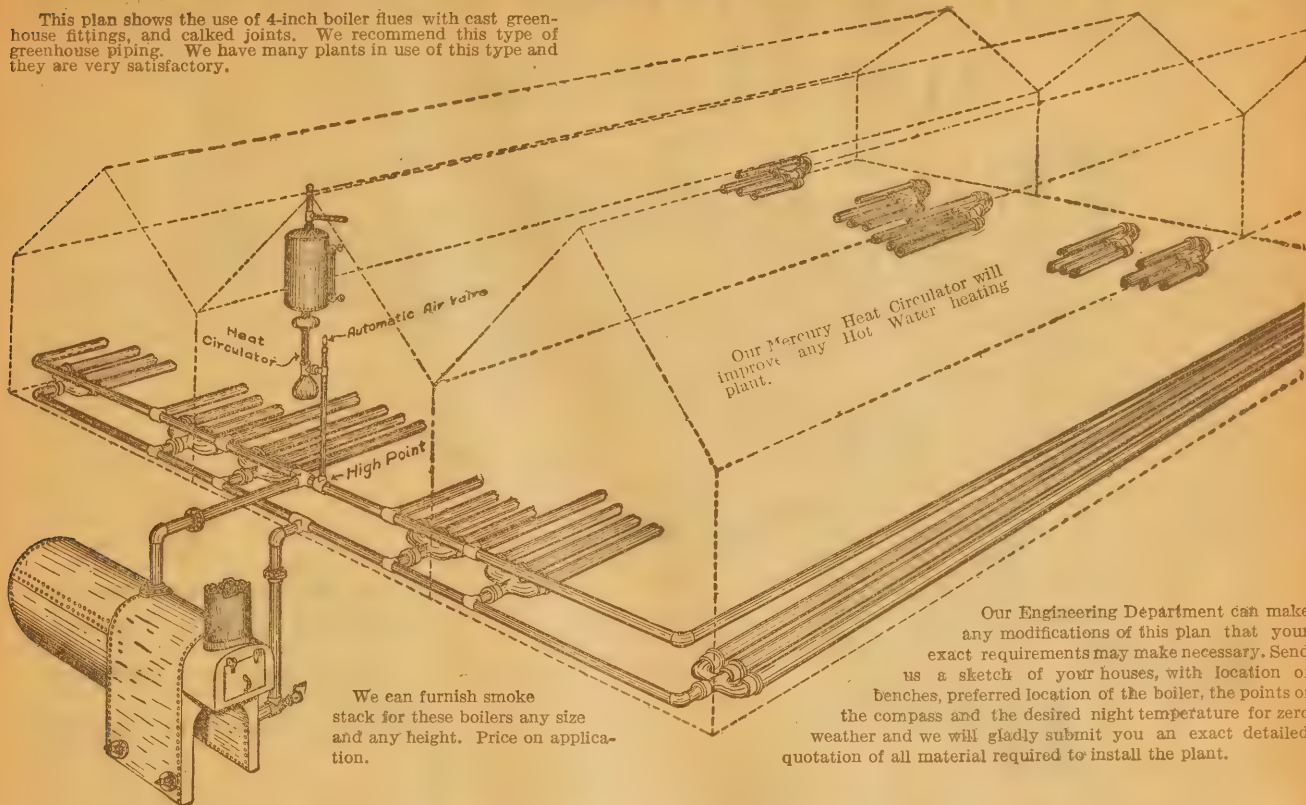
Those boilers which pass inspection are taken to our boiler shop, which we have fully equipped with the latest tools and devices and tested to the high pressure before they leave our plant. No boiler is allowed to go through incomplete. Any missing casting or grate bars or other parts are always secured and furnished by us, unless otherwise agreed.





# Complete Greenhouse Heating Systems.

This plan shows the use of 4-inch boiler flues with cast greenhouse fittings, and calked joints. We recommend this type of greenhouse piping. We have many plants in use of this type and they are very satisfactory.



## Boiler Flues For Piping.

We carry a large stock of material suitable for heating greenhouses. In heating greenhouses the consideration of the cubical contents may be overlooked, as the glass exposure is so great as to constitute almost the sole cause of loss of heat. We do not consider steam in a greenhouse as good as hot water, but it has some advantages in very large greenhouses. We would, however, never recommend steam for houses having less than 2,000 square feet of glass. In a hot water greenhouse heating system, the best thing to use for radiation is 4 inch pipe. It contains one square foot of heating surface to each lineal foot of pipe, and there is such a large volume of water held in this pipe that it is a safeguard against sudden atmospheric changes on the outside. All things considered, we consider 4 inch boiler flues the finest of all pipe to use for greenhouse heating. We furnish these boiler flues in random lengths from six to twenty feet each. They are joined together with sleeve couplings, as we show in the above illustration with calked joints. These sleeve couplings are made of larger diameter wrought iron pipe so that there is no danger of splitting them even though they are tightly packed. These boiler tubes are used in connection with cast iron greenhouse fittings with hub ends, as we show elsewhere in this catalog.

Price for specially selected boiler tubes in random lengths, thoroughly cleaned, with sleeve couplings... 12 cents per foot  
Price for the boiler tubes only, without the sleeve couplings... 10 cents per foot

## Specially Threaded Boiler Flues.

We are also in a position to furnish these boiler flues with special casing thread, and with threaded couplings, so that they can be made up the same as threaded pipe is made and can still be used with the calked joint greenhouse fittings at the end of the run. These boiler flues are practically the same strength as wrought pipe. They are lighter and are furnished for much less money.

Price, 3½ inch, threaded as above, including the couplings, per foot... \$0.14  
Price, 4 inch, threaded as above, including the couplings, per foot... .18

## Greenhouse Heating Boilers.

We have two hundred boilers on hand, suitable for greenhouse heating, in the following types:

Cast Iron Sectional Boilers. Locomotive Fire Box Boilers.  
Horizontal Tubular Boilers. Kroeschell Greenhouse Boilers.  
Herbert Return Flue Boilers.

Price on these boilers quoted on application.

## Complete Greenhouse Heating Plant.

If you will send us a sketch of your greenhouse, showing the location of the benches, preferred location of the boiler, location of the door, etc., we will figure up for you a complete greenhouse heating plant, all the pipe, pipe fittings, required, the boiler, with or without smokestack, and all the valves, etc., to install the complete plant and make you a special quotation.

## Calculating The Radiation Needed.

In heating greenhouses the consideration of cubical contents may be overlooked, as the glass exposure is so great as to constitute almost the sole cause of loss of heat. To heat a greenhouse from 50 to 60 degrees night temperature in zero weather with hot water using our Mercury Heat Circulator we would figure one square foot of radiation to 3½ square feet of glass. To heat a greenhouse from 60 to 70 degrees, one square foot of radiation to 2½ square feet of glass. In figuring steam plants, we figure twenty-five per cent less heating surface than with hot water.



No. 17-A-1

Boiler Flue with sleeve couplings

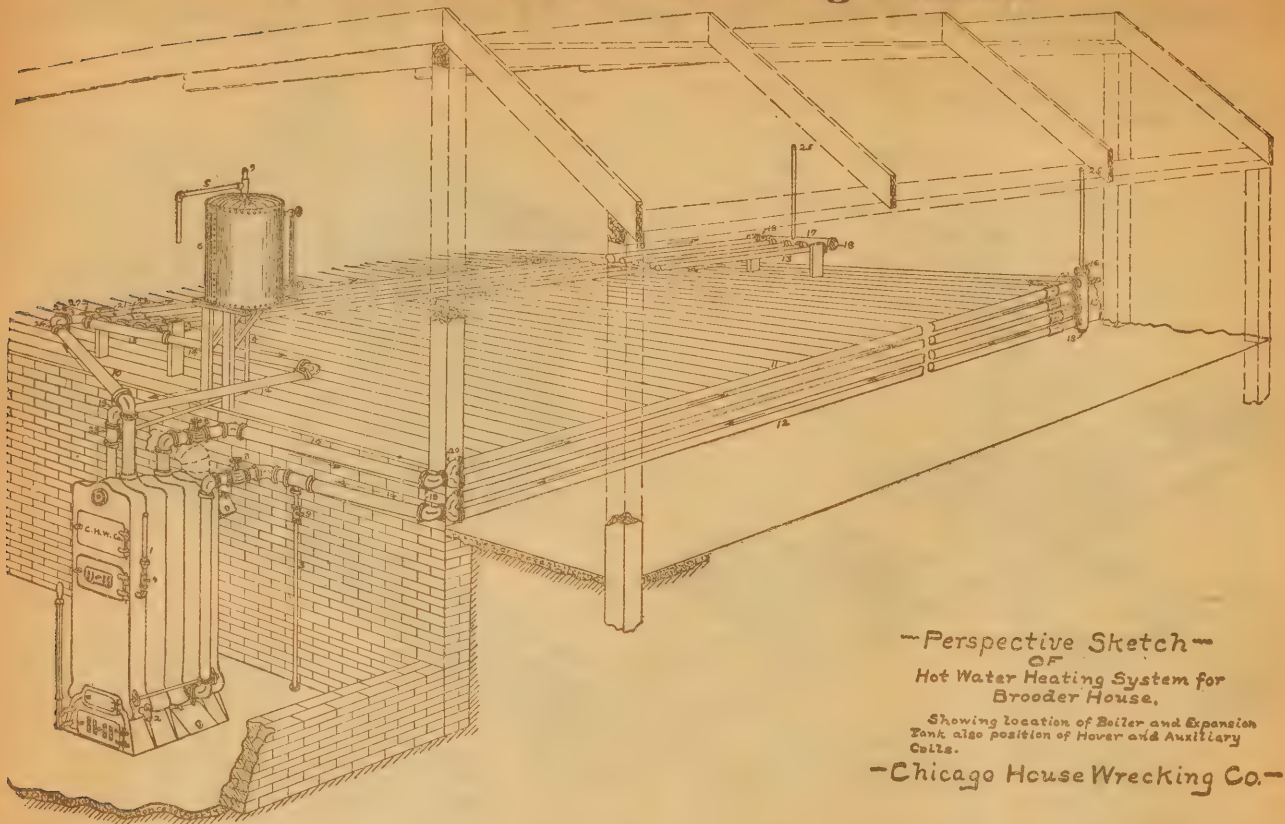


No. 17-A-2

Section view showing joint



## Brooder House Heating Plants.



—Perspective Sketch—  
OF  
Hot Water Heating System for  
Brooder House.

Showing location of Boiler and Expansion  
Tank also position of Hover and Auxiliary  
Coils.

—Chicago House Wrecking Co.—

The illustration on page 49 shows in full a hot water heating plant for a chicken brooder house. As the plant is designed, it is supposed that the house will be fifty feet long, sixteen wide and eight feet high at the highest point. It would have a submerged walk some twelve or fourteen inches below the floor of the brooder pens proper, four feet wide, and the floor space of the brooder pens would be twelve feet wide, and it will be partitioned across part way to the ceiling dividing the brooder pens from the walk. The line of pipe running through the center of the brooder pens is supposed to run through the hover which will be made sixteen inches wide and twelve inches high, and the top will be covered over with boards having suitable vent slides in them and the two sides protected with little canvas curtains that can be dropped down so as to keep this space within the hover at a temperature of 90 to 100 degrees. There is one 2" flow running from the boiler to the manifold at the further end of the brooder house and then the returns come back in four 1½" pipe. There is an auxiliary heating coil controlled with valves placed in the walk and in very severe weather this can be used to raise the general temperature of the brooder house to a satisfactory degree of heat.

### BROODER HOUSE HEATING OUTFIT NO. 17-A-3.

The plant we illustrate is Our Brooder House Heating Outfit No. 1, and is for a fairly large house and contains one of our No. 64 Perfection cast iron sectional heaters, and the necessary pipe to install the outfit as shown in our illustration is a fifty-foot house, and we will furnish all the material to install this plant just as we show it, with the exception of the smoke pipe for the heater for... \$95.00

We can furnish larger outfits than this and will submit prices on application.

### BROODER HOUSE HEATING OUTFIT NO. 17-A-4.

We have plants for smaller houses than this. Our brooder heating outfit No. 2 consists of heating apparatus for a house of the same width and height as above, but twenty-five feet long and is without the auxiliary heating coils in the walk. For this house, we figure one of our No. 15 tank heaters. This has a fire pot thirteen inches in diameter and twelve inches deep, fitted for seven inch smoke pipe and has 1½" inlet and outlet connections. It has a flat top on which you can place a boiler to mix and cook chicken feed. It is equipped with the best shaking grate and will easily supply all the heat needed for the brooder coils for this size house in the coldest weather. Our special price of this complete outfit, consisting of the No. 15 tank heater and expansion tank and all the necessary pipe and pipe fittings to install this as shown in the illustration for a twenty-five foot house is... \$45.00

### BROODER HOUSE HEATING OUTFIT NO. 17-A-5.

Brooder house heating outfit No. 3 is for a brooder house fifty feet long, sixteen wide and eight feet high, same as the above two houses, with only the heating coils in the hover, without the auxiliary coils in the walk. This consists of one of our No. 16 heaters, which has a fire pot thirteen inches in diameter and fifteen deep and fitted for seven inch smoke pipe and 1½" connections. It has the same flat top as described above, so that it can be used for warming or cooking the chicken feed, and our special price for this outfit, consisting of the heater, expansion tank, pipe and pipe fittings to install the coils as shown in our drawings is... \$55.00

### BROODER HOUSE HEATING OUTFIT NO. 17-A-6.

Brooder house heating outfit No. 4 consists of material for heating a twenty-five foot house with the hover coils and auxiliary heating coils in the walk. This is just as we show in our illustration, except that the house is but twenty-five feet long instead of fifty feet. The heater is one of our No. 17 tank heaters which has a fire pot thirteen inches in diameter and eighteen inches deep, fitted for seven inch smoke pipe connections. It has the same flat top as the others so that the poultry food may be cooked on it. We will furnish all the material for this outfit except the smoke pipe, material consisting of the necessary pipe and pipe fittings to install both coils as shown in our drawing, expansion tank, etc., for... \$70.00



# Modern Steam and Hot Water Heating Plants

We furnish the most up-to-date systems in existence. Everything guaranteed absolutely brand new and perfect. Every plant backed with our guarantee bond. Write at once for our information blanks. Make up a sketch of each floor of your home, giving us the size of the rooms, etc., as called for on these blanks and we will make you a complete proposition on the entire heating plant by return mail. You will be surprised at the prices we can make you.

We fit you out complete; loan you tools; make you up complete plans and instructions and give you every possible assistance. Are you interested in a modern heating system for your home? Write at once for our special complete Heating Catalog, which fully covers our heating proposition.

## What Our Heating Plants Are

Every heating plant we sell under our Guarantee Bond is absolutely brand new and perfect at every point. All fittings are brand new, standard cast iron fittings, reinforced and beaded. The valves are solid brass, heavily nickel plated; Pipe brand new; Radiators and Boilers of the latest and most modern design; cast from soft iron, prepared in a special process cupola, which reduces the possibility of castings cracking to a minimum.

The radiation is carefully estimated and scientifically proportioned throughout your house and the plant carefully designed by our engineers and the entire plant is perfect, beyond criticism.

Every statement is backed by our reputation and capital. We are in business to stay and will carry out every contract to the letter.

## What You Can Expect

We emphasize these facts, so that you will know what to expect in the way of quality when you place an order for a heating plant.

We want to dispel from your mind, right here, before going one step further, any false impressions that you make have in regard to the material, which we furnish you on your heating plant, not being strictly just as high grade in every way as any material which your home dealer or any other concern may undertake to furnish you, at probably an advance of 50 or 100% over our price. We represent our material just exactly as it is and we give you the absolute privilege to return it at our expense and we will refund your money, if, on its arrival, or after you get the plant installed, you do not find it strictly up to representation in every way.

## An Instance

We might recite herewith an instance of a customer of ours in Indiana who placed an order with us for a complete heating plant for his building at a saving of anyhow, 50% from the price which his home dealer had made him. He put the proposition before his home dealer and told him of the very low price which he was in position to buy his material from us, and of course, as the usual custom, the dealer started to hammer on the superior quality of his material in comparison to ours. He said, "When you get these radiators from the CHICAGO HOUSE WRECKING people, you will not be able to lay a board across the top of the radiator, it will be so far out plumb." This is a fair sample of the line of talk which these dealers use in trying to bias people's minds against our material.

We will say, however, that this customer of ours, while somewhat disheartened at these statements, patiently waited until his material arrived, and then, after taking the radiators up and placing them in his rooms and getting them out on the floor where he could see what they looked like, he tried the experiment of placing a board on the top of the radiator, as suggested by his home dealer and he then invited his dealer

in to see the board laying flat on the top of the radiator without 1/16 of an inch in variation from one end of the radiator to the other. Of course, he then had to admit that the radiators were certainly plumb, but he further started to worry our customer by saying, "Oh, the radiators are all right, but wait until you get the plant installed and see how it works, then you will see your mistake." This particular plant is installed today and it is as fine a heating plant as is in the entire country at the present time and this customer has saved a cool \$150.00 by purchasing this plant of us.

## Low Cost

Heretofore, a good Steam or Hot Water Heating Plant was only within the reach of the fabulously rich and sometimes the cost of a good Hot Water Heating Plant for a fair sized building would run up to as high as \$2,000. Think of it. We know this to be a fact. We have received letters from parties who paid 100% more for their plants than we could have furnished them and they could not possibly believe that we could furnish a complete hot water heating plant for a building at such a ridiculously low figure, until they came right here to our plant. After we carefully showed them the exact pattern of radiators, boiler, piping and the high-grade nickel-plated valves, etc., that we furnish on all our plants, it was only then we could convince them.

## Our Guarantee Bond

We publish elsewhere in this catalog a facsimile of our ironclad guarantee bond. This bond amounts to nothing less than an absolute 365-day free trial proposition. In other words, any time within one year after date of sale of your plant, if you find that it is not up to representation in every way and entirely satisfactory, we give you the privilege to return it at our expense and we will refund your money in full.

We have such absolute confidence in the quality and merits of our plants that we do not hesitate to make this proposition and we leave it with you to be the fair judge in the case, as to whether the plant has come up to our claims or not.

## We Know What Our Plants Will Do

How is it possible for us to put out such a broad guarantee on these heating plants, leaving the matter of installing entirely in your hands, even though you have never had the least experience in steam fitting or installing plants of this kind? You will probably wonder how it is possible for us to offer such a one-sided proposition as we do. The secret of the entire matter is confidence.

We have such absolute confidence in the merits of our plants and what they are capable of doing, that we consider the claims as advanced in our guarantee to be very mildly stated indeed. It is no guess work with us.

We know just what our material is and we do not hesitate to make just claims for it, and as far as the work of the plant is concerned, we know just what temperature you can expect in every room in your house, just as we know that two times two make four.

If you have written us for an estimate and filled out our blanks, you have given us the total square feet of glass surface in each room and we can tell from your plans the exact amount of wall surface that is exposed and we have the exact size of each room, and with this information in our possession, by application of proper formulas, we can figure out to a fraction the exact degree of temperature that you can expect with a minimum degree of temperature outside, and this depending upon the minimum temperature which you experience in your locality and which you furnish us with the information that we ask on our blanks.



# The Successful Working of Every One of Our Plants Guaranteed

## As Sure as the Rising and Setting of the Sun

You can no doubt readily see that figuring with exact formulas scientifically correct we know just what to expect from a given sized radiator. Our expert engineers figure all this up very carefully, and there is absolutely no guess work whatever about the matter at any point on the entire plant. Even the most insignificant elbow on the system has been very carefully determined by the most up-to-date formulas in use for determining pipe sizes, etc., and everything is figured out to a scientific accuracy.

Operating under such a system, you can readily see that, after all, it is not a hard matter for us to give you such an absolute guarantee bond, as to what results you can expect from your plant; the successful working of your plant, after it has been designed under a system of this kind, is just as sure as the rising and setting of the sun.

## Our Mercury System

Our Mercury System of Hot Water Heating, which we use exclusively, is positively the top notch of perfection for residence heating. We want you to read very carefully the detailed explanation of the theory and operation of our Mercury Heat Circulator, as given on page 25 of this book.

This Mercury device positively permits you to heat the water in your house to as high as 235 degrees in temperature, before it leaves the boiler, and this Mercury Heat Circulator is one of the strongest points of our system.

When you purchase a Hot Water Heating Plant of us, you can rest assured that you are getting the most modern and up-to-date system in existence at the present time. There are positively no improvements that are known to engineering science up to date that are not embodied in our system of Hot Water Heating.

## We Make You Drawings

We furnish, with every heating plant that we sell, a complete detailed blue print plan, showing the location of every radiator and just how the piping is run in the basement; where the boiler is located, etc., the size of each pipe is plainly marked on the plan and there is positively no chance whatever of your not understanding fully just how to use the material that we ship you on your order.

Furthermore, we furnish with each plant, a detailed set of instructions, covering the most important points and those points that are most difficult to understand.

The very secret of the tremendous success of our plants, we think, is to a very considerable extent due to the very complete instructions and our blue print plans which we furnish with our plants. The chances of your going wrong are about one in a hundred. Furthermore, you always have the privilege to correspond with us, and any point that is not clear to you, we will do all we can to explain as fully as possible.

## Our Engineering Staff

WE HAVE A LARGE FORCE OF EXPERT HEATING AND PLUMBING ENGINEERS constantly in our employ, whose entire time is devoted to the interest of our customers. When you order a heating plant of us, you secure the benefit of this highly skilled service. No rule of thumb methods go with us. We have this business down to an exact science and every radiator is figured to a fraction. When you purchase a heating plant of us, you can rest assured that you will have the right amount of radiation and the proper sized pipe in the right place, which is not always the case when you let the job out to a contractor who has never had the technical training re-

quired to properly figure up a plant of this kind. It requires scientific ability, judgment and experience to design a good heating plant and to figure correctly the amount of radiation required in any given building. The estimating is really the most important part of the entire work. If the plant is not properly figured, and if you don't have sufficient radiation in a given room to maintain the proper temperature, it would be better that you did not have the plant at all.

## You Can Install It Yourself

Did you ever stop to think what a great pleasure it is to do a job of this kind yourself and know that it will be DONE RIGHT? The actual work is mere pastime, it is so interesting. An average heating plant can be installed in about six or eight evenings, and then think of the extreme joy when the plant is all ready for the test and you turn the water into it and start the fire and then find that it works beyond your wildest dreams. It is much more pleasure, knowing that you did the job yourself, than when somebody else does it for you.

## Safe Delivery

We protect you absolutely on safe delivery of your plant, and should the radiators or the boiler or any of the castings become damaged in transit, all you have to do is to have your freight agent at destination make an acknowledgment of the fact and mark to what extent the item has been damaged and we will immediately duplicate your shipment and forward you a new radiator or whatever it may be, without delay, and you will be put to no inconvenience whatever in the matter, as we take the responsibility of the claim entirely on our own hands and we fight the claim through with the railroad company and see that proper settlement is made. All we ask you to do, is to have the freight agent mark an acknowledgment of the damage on the freight bill, when the material reaches destination.

## Send For Our Estimate

Remember, you are under absolutely no obligations whatever to us for making you a figure on your heating plant. We are only too glad to figure up your complete plant and line up the entire proposition for you.

Get our information blanks first. These will post you fully on just what information is most important for us to have and it will avoid the necessity of corresponding back and forth. If you will carefully read over these blanks and answer all the various questions, we will be able to get our figures to you by return mail.

Remember, it is very important to answer all of these questions fully in detail, as it is very necessary for us to have all this information in order to make you an intelligent estimate. It is therefore important that none of these questions be slighted.

Make your sketches as complete as possible and then you can be sure of the radiation on your plant being figured right. It will avoid any possible chance of a misunderstanding in the matter. It is very important to explain in regard to the surroundings of your building. If your house is located on the open prairie with no houses around it, you will of course need much more radiation than you would if you were located in a city block. The size of the windows also have a very considerable bearing on the amount of radiation you will need and if these points are all fully covered, you can depend upon it that your plant will be figured exactly right in every way.



# Selecting The Proper System

You are going to install a Heating Plant of some kind. That is a foregone conclusion. It simply remains to make up your mind as to which system will best serve your purpose. There are three practical systems of heating in common use at the present time, HOT WATER, STEAM AND HOT AIR. It is, therefore, a matter of deciding on one of these three.

We are pleased to give you in the following a brief unbiased statement of the advantages and disadvantages of these various systems and you can judge for yourself as to which system you think will be best adapted for your particular case:

If you are looking for a heating plant for your residence and your residence is not unusually large, by this we mean a building containing over 15 or 20 rooms, by all means put in a hot water heating plant. It is certainly the best system you could possibly install, and especially our Mercury Heat Circulator System, which is positively the top notch of perfection in a system for heating residences. There is not a better system of heating known to engineering science at the present time than this Mercury System of heating and if there is a better system than this that could possibly be devised for heating an average size residence, it is yet to be discovered.

## When Steam is Best

When the plant gets up into very large proportions, such as is the case when a very large theater, church or hotel building is to be heated, hot water is not as practical a system as steam. For large buildings of this kind, where the plant has to cover very large areas, steam is the most practical system to use, owing to the fact that radiation in far-off parts of the building can be much more readily reached, and under these conditions, a steam system is the most reliable.

The disadvantage about a steam plant is that it requires much more attention than a hot water plant, and it is for this reason that we strongly recommend a hot water plant in preference to steam plant for heating residences. A 14-year-old boy can, without any trouble whatever, fully attend to a hot water plant, while it takes some little experience and practice to properly run a steam plant.

If the pressure in a steam plant goes down below a certain point, you will be burning coal in the boiler, and no practical results will be obtained in heating your rooms. The pressure has to be kept up to a certain point, and if the radiator is not filled with steam, you will not be getting any results, even though you are burning fuel in the boiler. You can get up heat quicker with a steam plant than you can with a hot water plant, but our mercury heat circulator system does away very considerably with the disadvantages in connection with hot water plants, and it reduces the volume of water required in the system, which means quicker results from firing, etc. A steam plant is more sensitive than hot water plant. It fluctuates more, and it is for this reason that it requires much more attention in order to keep the pressure to the proper point. Twice a day is often enough to look after your hot water plant, and our boilers being of special construction with a very deep fire pot, they will hold fire for 12 hours at a time without any difficulty whatever.

However, as we have already brought out in the above, steam, in spite of these disadvantages, is the best system to use when a large building is to be heated, for the simple reason that when a plant gets up into large proportions, as is necessary to heat a large building of this kind, there is much greater volume of water in the boiler and a much larger boiler and the plant is much less sensitive.

In other words, it is much easier to maintain a steady pressure without giving the boiler so much attention. Then again, on these large plants there is generally always a janitor or a fireman in constant attendance, while the plant is running,

and under these circumstances, of course, the disadvantages of the plant requiring more attention are practically not to be considered and the great advantage which a steam plant possesses, that is giving quick results from firing, have more weight in this case than the actual attention required by a plant. It only takes about from 20 minutes to three-quarters of an hour, depending on the size of the plant, to have an entire building warmed up after the fire is first started with a steam plant, while in a very large hot water plant, it would probably take several hours to get the rooms heated up to the desired temperature.

In Church and Theater Buildings especially there are considerable periods of time during which there is no heat required and if the Building were heated with a hot water plant, it would be necessary to constantly maintain a fire in the boiler during severe weather to prevent the system from freezing up, while with a steam plant, the water can be drained out of the entire system and there will be no danger of freezing, even though there is no fire in the boiler.

## Regulation

When a steam plant gets down into a small size plant such as is necessary to heat an average size residence, the disadvantages of a steam plant outweigh its advantages to a very considerable extent. As we have already stated, it is a very difficult matter to secure steady regulation and especially to keep your rooms up to the full temperature over night. This disadvantage is, of course, overcome to the greatest possible extent by the use of our Diaphragm Regulator, which is sent out with every steam plant, and with the aid of this regulator you can have your rooms in the morning at least three or four degrees of what they were the night before; but the point which we wish to emphasize is, that these very failings of the steam plant are the strongest points of advantage in a hot water plant.

In other words, where a hot water plant shines out above all other is in the almost constant temperature which you can maintain in your rooms in all conditions of weather, and regardless of how sudden the temperature changes are outside, and it is really wonderful to think of what little attention a hot water plant actually requires.

To put it in another way, if you install a steam plant in your residence, you would not be in the least dissatisfied with the amount of attention that the boiler requires, as it really would not require much more attention than your heating stove that you are now using, but if you put in a hot water heating plant, you would certainly be surprised at the very little attention that it requires to run it, and we very strongly recommend a hot water heating plant for your residence. A hot water plant is the most economical in coal, the heat is not so intense and it has many other advantages which really have to be experienced to be appreciated.

Remember, we do not try to convey the impression that if you purchase a steam plant it will not give you absolute satisfaction in every way, but we do say that if you put in a hot water plant, you will be much more agreeably surprised at the results than you will with a steam plant. A hot water plant costs the most money, but we strongly recommend it in spite of this increased cost, and furthermore, we will guarantee that this increased first cost will be entirely made up for in a very short time in the saving which will be made in your coal bills.

As to the relative choice between these three systems of heating mentioned above, we would, of course, give a hot water first place, and a steam plant is certainly next to be preferred, and we would advise you a thousand times rather to put a hot air furnace in your building than any heating stove manufactured at the present time.



# THE GREAT ADVANTAGE

We have already brought to your attention the most important advantage of all of these systems, and that is the fact that the coal, ashes, dust, gas, etc., are all removed to the basement, and when these advantages are secured, this covers practically 75% of the actual advantages that are to be had from these systems, and while a hot air furnace cannot compare with a hot water plant or a steam plant as far as efficiency or convenience is concerned, we can certainly fit you up with a complete hot air furnace equipment that we will guarantee to give you absolute satisfaction in every way.

## Our Furnaces

Our furnaces which we handle are the best furnaces on the market at any price, and we do not know one point in their entire construction that could possibly be improved upon. We refer you particularly to the detailed description of these furnaces as given elsewhere in this catalog.

The great attraction which a hot air furnace has is its low cost, and in this particular feature a hot air furnace has the advantage of all other systems. We can furnish you with a complete brand new equipment including all the registers, hot air pipes, furnaces, etc., at a cost that will really surprise you. In fact, the expense will not amount to much more than the cost of an ordinary heating stove, and by putting the plant in yourself and following our very simple instructions or plans, or getting some handy mechanic to do the work for you, you will be able to complete the entire installation at a very small figure.

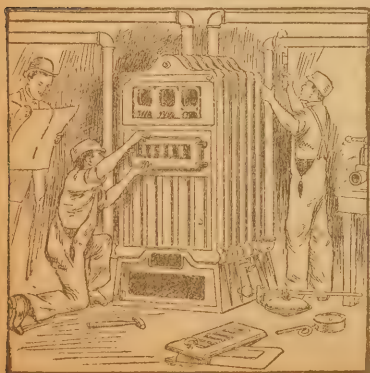
It is only fair to say here also, that a hot air furnace really has one or two very striking advantages which are not to be found with the other systems, and that is, you can get up heat almost instantaneously after the fire is started, and also the heat can be just as rapidly checked if it is desired to do so. Where a hot air furnace really is most appreciated is in changeable climates and countries where the weather is not so severe.

## We Can Quote You on Any of These Systems, Steam, Hot Water or Hot Air

As we have already stated, the above is an unbiased statement of the relative advantages and disadvantages of these various systems, and we leave the matter entirely with you as to which system you want to install. We will cheerfully make you a proposition on any one of these three systems of heating, and we will absolutely guarantee any system that we furnish you, to give you the results as set forth in our specification to the fullest extent, so that you are taking no chances whatever in the matter.

We guarantee every plant we sell, and if you will let us know which system you wish to install and favor us with the necessary information which we will need in regard to the building, we can make you a complete proposition on your plant and you can rest assured that the price will be right.

## Putting the Plant In



Few people realize what a simple matter it is to put in one of these Hot Water or Steam Heating Plants in a building, even though it is an old building, already built. It is not necessary to put the pipes inside the walls. You can get them run right outside in the rooms alongside of the radiators, and by arranging the upright pipes which lead to the second floor radiators close behind the radiators about 6 inches apart, it makes a very neat

job, and if these pipes are gilded nicely, there is practically no advantage whatever in having the pipes inside the wall, and a plant installed with these upright pipes outside the walls and gilded nicely, as above explained, will present just as nice an appearance in every way as if the pipes were concealed.

The heat that is given off from these upright pipes is not by any means entirely insignificant, and it helps out the radiators considerably in heating up the room.

## It's a Simple Job

With most people, the matter of installing a plant is looked forward to with as much pleasure as a corn husking party and the fun is just as great. Putting up a plant is something you don't do every day. At every turn in the entire work, there is some new, tremendously interesting feature encountered, which requires a little careful thought and probably some continued discussion before it is finally solved, but surprisingly simple after all, and it is these new features that are constantly coming up in putting up a plant that makes the work so interesting.

Cutting and threading the pipe is practically the most difficult matter encountered in the entire work, and is simple as turning a handle, and as our complete blue print plans indicate the exact pipe size to use at each point, it is simply a matter of cutting the size pipe required and to the right length, starting at the boiler and continuing around until the last radiator is connected up.

The great secret of the pleasure experienced in putting in a plant of this kind lies in the fact that it is an absolute diversion from your everyday line of work, whatever it may be. You may be a lawyer, doctor, business man or a professional man of any kind, and if your everyday line of work is along this line, the more interesting will be the work of installing the plant.

You would be really surprised, if you knew how many plants we sold to lawyers and doctors, etc., who do all the work themselves and consider it the finest opportunity ever offered for getting some good, substantial exercise, and after the plant is in, they feel the better for it.

If you do not care to do the work yourself, you can get in touch with some ordinary mechanic, and by overseeing the work, you will get just as good a job, in fact, a better job than you would if you let the contract out to some local plumber who has not had the scientific training and experience necessary in designing a heating plant and proportioning the pipe sizes, etc., and radiators as they ought to be and as they are shown on the plans which are sent out with every heating plant which we sell.



If interested in a modern heating system for your home, do not fail to get our Special Heating Catalogue. This catalogue fully covers every side of the heating question, and contains much valuable information. Sent free, postage paid. Write for it at once,



# Our Proposition

## "A Heating Plant for Your Residence"

What do these words mean to you? Do they present a picture to your mind of comforts entirely beyond your means; a luxury which you, with only one or two hundred dollars to lay out, cannot hope to enjoy?

That is the impression that 90% of the people throughout the country owning small homes and of average means receive, when the word, Heating Plant, is mentioned.

We know this to be a fact with the experience that we have had.

We have had hundreds of people come into our office on some entirely different mission than looking for a heating plant, probably being attracted by our very low prices which we are putting out on our lumber and building material, etc., and when we incidentally mentioned a heating plant to them for their new building, the reply would be universally the same. "A Heating Plant! That is out of the question entirely; the price would be so high that we could not even think of it."

Why is it that so many people have this wrong impression? Where does it originate?

## The Answer

The problem is simple.

Call up your local dealer or drop him a line and have him give you an estimate on your plant and you will get the answer to this problem by return mail. THE PRICE, "That's the answer."

Is it any wonder that people should entertain wrong ideas in this matter? Why is it that your local dealer demands such exorbitant prices for his material? Is it because his material is any better? That is a question which you yourself can decide.

You probably know of several parties in your town who have had their plants installed by the local men; get in touch with them, then drop us a line and let us put you in touch with some of our customers; maybe we can find one in your own neighborhood whom you can call on, and we will guarantee our plant to equal, if not out-class, both in design and quality of material, the heating plant installed by the local dealer at every point, and we leave it with you to be the fair judge in the case.

## It Stands to Reason

Does it not stand to reason that we, with our immense working capital, having enormous quantities of radiators and boilers constantly manufactured and keeping the foundries working the year around, and then hardly able to fill our requirements, is it not evident that we, by selling the material direct to you and not through several different agents, can quote you lower prices than your local dealer who sells you material which has probably already been turned over several times and a profit realized in each case? Is it strange that we can almost cut his price in half?

# Our Guarantee Bond

We show elsewhere in this book a fac-simile of our Guarantee Bond. This is a bona fide certificate of guarantee, and one of these certificates is furnished with every Steam or Hot Water Heating Plant which we sell.

## 365 Days Free Trial

The substance of this bond amounts to nothing more or less than an absolute option to you for an entire year on your heating plant, and if, after giving our plant a try-out after one year, you find that it does not come up to our specification at every point and entirely capable of giving you the results which we claim, you can return the entire plant to us at our freight expense and we will refund the original purchase price.

## The Price

We positively guarantee the price of our plant to be lower than can be regularly secured from any other concern in the United States, considering the quality of material, amount of radiation, size boiler, etc., which we furnish on your plant. Don't let the matter of price which we quote you on your plant lead you to believe that there is something inferior about our material. We back every item on our entire heating plant, as far as quality is concerned, against any material of similar class on the market at the present time.

## You are Protected Absolutely

Remember, when you get our proposition on your Heating Plant and you send us your order, you are protected absolutely and on the strength of our guarantee bond you have the privilege to return the entire shipment to our plant at Chicago and we will pay all return freight charges and refund your money; if, on opening up the material, you do not find our claims as to quality, etc., on your plant entirely justified, you can have your money back, if you want it.

You can therefore readily see that even though you are a thousand miles away from us, you have just the same protection as if you were right here yourself inspecting the material before you purchased it and seeing it loaded in the car.

## Our Complete Detailed Specification

You have in your possession the complete detailed specification covering the entire plant and practically every minor item furnished on it. This specification is furnished with every proposition which we send out, and we have no desire to cover up even the most minute detail in connection with our plants. They are perfect beyond question to the very last fitting.

## We Figure Liberal

If you compare our price with any others that you may receive, please remember the great importance of considering the amount of radiation and the size boiler, etc., on which we have figured for your plant. We have adopted a very liberal system of figuring our plants, and if you have ever had any experience in running a plant, you will certainly appreciate our judgment in this matter. We would much rather lose an order any time than sell a plant which would not be satisfactory.

When we make you a proposition on a plant, you can rest assured that it is a plant that will be amply large for your requirements and one that you will never have to force, even in the most severe weather that you will experience in your climate.



# Complete Hot Water Heating Plant For **\$167.70** Seven Room House OUR MERCURY SYSTEM

Here is a sample of what we can do for you in a Heating Plant. This plant covers the requirements for an average sized residence of seven rooms. Everything on the entire plant is absolutely brand new and perfect in every way:

## RADIATION

The radiation furnished on this plant is our brand new 38" three-column cast iron hot water radiation, of which there will be a total of 270 square feet. This radiation will be divided up among the various rooms of the house as follows:

### FIRST FLOOR

Parlör, 15x12x9—1 rad., 12 sec., 60 sq. ft.  
Sitting r'm, 15x12x9—1 rad., 9 sec., 45 sq. ft.  
Dining r'm, 12x12x9—1 rad., 9 sec., 45 sq. ft.  
Hall, 12x12x9—1 rad., 9 sec., 45 sq. ft.

### SECOND FLOOR

Bedroom, 12x12x8—1 rad., 7 sec., 35 sq. ft.  
Bedroom, 12x12x8—1 rad., 5 sec., 25 sq. ft.  
Bathroom, 8x 8x8—1 rad., 3 sec., 15 sq. ft.

### BOILER

The boiler we propose to furnish in this proposition is one of our No. 67 brand new cast iron Perfection Boilers, furnished complete with Hot Water Thermometer and Altitude Gauge and sufficient asbestos cement for covering same.

**EVERYTHING COMPLETE FOR ONLY \$167.70**

This proposition includes absolutely everything to the very last detail that is necessary to completely install this entire plant in a first-class workmanlike manner, with the exception of the decorating bronze for the radiators and the smoke pipe connection between the boiler and the chimney; also complete plans for installing, and we back this plant with our absolute guarantee bond, which is furnished with every one of our heating plants.



# Hot Water Heating Plant Complete for **\$184.30** This Modern House, Only



We can furnish for this building above illustrated, a complete, modern, up-to-date Hot Water Heating System, using our Mercury Heat Circular System of hot water heating, and a total of 290 square feet of brand new 38-inch 3-column, cast iron hot water radiation, together with all fittings, pipes, valves, etc., and everything to complete the entire equipment in a first-class workmanlike manner for \$179.50.

The radiation will be distributed throughout the various rooms as follows:

### FIRST FLOOR.

Living Room.....1 rad., 9 sec., 45 sq. ft.  
Dining Room.....1 rad., 7 sec., 35 sq. ft.  
Kitchen .....1 rad., 6 sec., 30 sq. ft.  
Hall .....1 rad., 6 sec., 30 sq. ft.  
Bathroom .....1 rad., 3 sec., 15 sq. ft.

### SECOND FLOOR

Chamber .....1 rad., 8 sec., 40 sq. ft.  
Chamber .....1 rad., 8 sec., 40 sq. ft.  
Chamber .....1 rad., 6 sec., 30 sq. ft.  
Chamber .....1 rad., 5 sec., 25 sq. ft.

### BOILER

The boiler we propose to furnish on this heating plant is our No. 67 Cast Iron Perfection Boiler, fully illustrated and described elsewhere in this book. We furnish it complete with a full set of hot water trimmings, including Altitude Gauge, Thermometer, Drain Cock, and the entire plant will be furnished complete in every detail with the exception of the decorating bronze for the radiators and the smoke pipe connection between the boiler and chimney. We can furnish all decorating bronze and bronzing liquid for all the radiators on this plant at an additional cost of \$3.25.

This entire equipment with our Guarantee Bond and Complete Working Drawings for installing, only \$184.30.

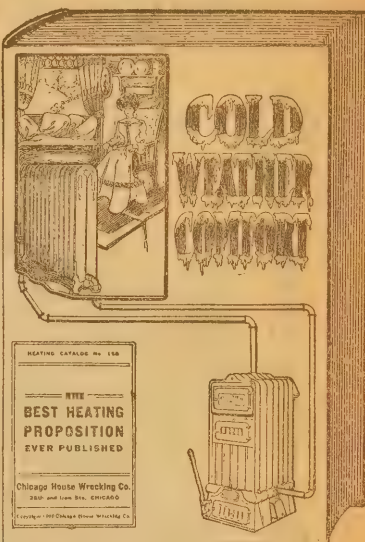


# Our Complete Special Heating Catalog Combined with Our Complete Plumbing and Heating Instruction Book Sent to You Free, Postage Paid on Request

## GET THIS BOOK

### IT'S VALUABLE

This book contains complete and simple instructions covering every difficult question in connection with Plumbing and explains everything in so simple a manner that you cannot help understanding it. You can install your own material. Get in touch with some ordinary mechanic if you do not care to do the work yourself. Read this Instruction Book very carefully and you will be able to get your entire material installed without any trouble whatever. Do not fail to write for this book. Covers fully our heating proposition, including our Steam, Hot Water and Hot Air Heating Plants and explains fully the great advantages of these systems. Tells you all about putting in your Heating Plant, general principles of Hot Water Heating, explains the Overhead Hot Water Heating System; how to connect the Mercury Heat Circulator. Explains fully the principles of Steam Heating Plants. Hot Air Furnace Heating. How to connect up the Furnace; make the connections; Adjustable Elbow; how to set the wall stacks in the wall; how to put a coil in your furnace to heat water for your bathroom and kitchen; general principles of Plumbing; how to use all the various Plumbing Tools, including Plumbers Blast Furnace; stocks and dies, calking chisels, etc. How to connect all the various plumbing fixtures, explaining fully in detail the use of the various fittings, Sewage System, Air Pressure Water Supply Systems, including Gasoline Engine Outfits, etc. Elevated Tank Systems, general pointers on Plumbing Systems. Everything of any importance is fully covered in the most clear and simple manner possible so that you cannot help but understand it. Write for this valuable book at once. This book has been prepared especially for the benefit of our customers at very considerable expense and if interested in a modern heating system or plumbing system for your home, we want you to have one of these books in your possession.



## WE LOAN YOU TOOLS

In lining up our proposition on our heating plants, we realized the importance of furnishing our customers with the necessary tools to do the work. It would be a very great expense if you had to go to work and lay out the necessary money to cover the cost of the tools for installing your plant, when you would probably only use them once and then have no further use for them, and to accommodate our customers, we have decided to make the following proposition:

When you place an order with us for a heating plant and mention that you want us to furnish you with the tools, we send them along with the order C. O. D. for whatever they amount to. They are invoiced separately on the bill and you can tell just what they cost, and then when you are through using them, you pack them up and turn them over to your freight agent and bill of lading is made out for them. Mail bill of lading to us, and immediately on receipt of this bill of lading, we will return your money.

## Read What Our Customers Say. You Will Say the Same

Some of these people may be your next door neighbor. We have our plants established in every state in the Union. Every one of these testimonials are honest, clean, unsolicited expressions from users of our systems, and we defy any one to prove to the contrary.

### HERE IS ONE IN NOME, ALASKA.

Chicago House Wrecking Co.,  
Chicago, Ill.

Dear Sirs:—The heating plant you sent me is installed and is working fine. Everything is entirely satisfactory in every way. Wishing you entire success, I remain,

Yours truly,  
(Signed) PAUL H. FITZGERALD.

### NO MORE STOVES FOR HIM.

Chicago House Wrecking Co.,  
Chicago, Ill.

Gentlemen:—I am writing you in regard to the Steam Heating Plant I purchased of you last summer and installed myself. To say that we are more than pleased (after passing through the winter and proving its efficiency) is not putting it strong enough. Every room in the house has been open and we have had no trouble in keeping an even temperature in every room in the house night and day. No more stoves for me, after knowing what comfort is, and we have certainly had it during the past winter. The plant has given perfect satisfaction in every way.

Please send me your General and Lumber Catalog. I am thinking of building new porches and would like to see your prices.

Very truly yours,  
(Signed) A. E. DEWHURST

### INSTALLED PLANT WITHOUT PLUMBERS' AID.

Chicago House Wrecking Co.,  
Chicago, Ill.

Dear Sirs:—I have my heating plant installed and it works fine. Can heat my place red hot if I want to.

Yours very truly,  
(Signed) L. A. NEFF.

### CAN GET MORE HEAT THAN NECESSARY.

Chicago House Wrecking Co.,  
Chicago, Ill.

Gentlemen:—The heating plant I got from you does fine work. I wrote you that I thought you should have cut the pipes, but then found it was no job after all. You loaned me the tools and I had no trouble in getting the pipes to fit. The plumbers here would not loan me any tools nor would they cut me a pipe, because I did not buy of them, but I got it in all right and it works fine.

Yours very truly,  
(Signed) THOS. FLETCHER.

### WORKS WELL IN THE COLDEST WEATHER.

Chicago House Wrecking Co.,  
Chicago, Ill.

Gentlemen: Replying to your letter of December 3, which has just reached me, will say that the Mercury Heat Circulator sent me on December 17 was received December 23, and installed.

The heating plant is working fine under very trying weather and I am very well pleased with it.

Yours very truly,  
(Signed) H. G. SMITH.

### ADVISES NOT TO BE MISGUIDED BY PLUMBERS.

Chicago House Wrecking Co.,  
Chicago, Ill.

Dear Sirs:—Having just experienced the coldest days known in Chicago for 3 years, I am more than pleased to send you this unsolicited testimonial regarding the Hot Water Heating Plant purchased from you a few months ago. I installed this plant with practically no assistance and have had no trouble whatever since starting it up.

The Mercury Heat Circulator I find to be a valuable accessory, enabling the water to leave the boiler with a temperature of 235 degrees without boiling over. I would advise anyone who contemplates the purchase of a heating plant to carefully consider your proposition and not be misguided by false statements of plumbers, etc., or hasty conclusions of well meaning, but ill-informed friends.

Yours truly,  
(Signed) L. E. ADLER.

### THE ECONOMY SURPRISED HIS NEIGHBORS.

Chicago House Wrecking Co.,  
Chicago, Ill.

January 27, 1909.

Dear Sirs:—The Hot Water System that you sold me is now installed and it is certainly working fine. I appreciate the way you treated me very highly.

I got 700 feet of radiation and boiler, and I used only 3 buckets of range coal in 24 hours in the coldest weather we had. It furnishes 2 stories and basement—12 rooms—and without storm doors or windows. As yet I have had no trouble whatever. A child could take care of it. I have had several neighbors here to look at it and they were all well pleased with it. They could not understand how it could heat the whole house with such a small amount of fuel.

If you want any further reference call me up, or you can send anyone to see the plant. I put it in myself.

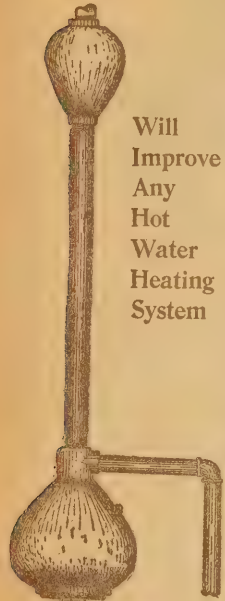
Very respectfully,  
(Signed) PETER M. STREIT.

THE NAMES AND ADDRESSES OF THE ABOVE WILL BE FURNISHED ON APPLICATION



# Our Mercury Heat Circulator

We furnish one of these on every one of our hot water heating plants. This device positively permits you to heat the water in your hot water heating system to 235° temperature. This temperature is as hot as steam at 10 lbs. pressure.



Will  
Improve  
Any  
Hot  
Water  
Heating  
System

This device is of such vital importance to the successful working of our hot water heating system, that it would be a very serious oversight if we did not give some detailed information of the principles on which it works and the theory of its operation in these pages.

The purpose of this device, as you are probably already aware, is to keep a pressure on the water in the system at all times. This pressure is maintained by a column of mercury about 20 inches high, which is contained in the device, and as this column of mercury is always pressing upon the water in the system, this serves the purpose and gives us the pressure desired, which is about 10 lbs. to the square inch.

You will probably ask at this point, "But what is the object of this pressure? Of what advantage is it to the system? It is not equal in all directions. Therefore, how can it be a benefit to the circulation of the system?" We do not put forth any such ridiculous claim as to say that this pressure of 10 lbs. on the water directly forces the water through the pipes at a rapid rate. A statement of this kind would stand beyond the bounds of reason, as the pressure is certainly equal in all directions and there would be no direct motion produced in the water by this static pressure in itself.

What we do claim, however, is that this pressure operates in an indirect way to increase the circulation in the system, which we will explain later.

It is a well-known and established physical law that the temperature at which water will start to boil varies directly as the pressure upon the water.

Under ordinary conditions, there is no pressure upon the water except that of the atmosphere, which is about 14 lbs. to the sq. inch, and water at this pressure boils at approximately 212 degrees Fahrenheit. If we increase the pressure on the water about 10 lbs., the water will not start to boil into steam until 235 degrees are reached, and if we increase the pressure still further, the boiling point would be increased still further, and so on, all the way up to 240 or 275, etc., according as the pressure increases.

This law could hardly be demonstrated in a more practical way than the experience tourists have many times reported when traveling in very high altitudes.

For instance, mountain climbers have found it impossible to cook potatoes on top of a very high mountain where the atmosphere pressure was so slight that the water would boil at a very low temperature, probably 180 degrees or so, and this temperature, of course, being entirely too low to produce any effect whatever on the potatoes, it would be impossible to cook them.

This is simply a further demonstration of the law as explained above; that is, that the point at which water boils varies directly as the pressure upon it.

If you reduce the amount of atmospheric pressure on the water, of course, the boiling point will be reduced in proportion. For instance, water in an absolute vacuum would boil at a comparatively very low temperature and it would take very little heat to get the water to change into steam.

These are the general principles which have been taken advantage of in our Mercury Heat Circulator.

You have, by this time, probably already surmised the great advantage which we get in a hot water system by using this pressure, which, of course, means hotter water in the system and a much more efficient apparatus.

The water in our system does not boil until 235 degrees temperature are reached, so that we can keep much hotter water in the system throughout, we can get along with smaller radiators on the plant and get better results than it is possible to secure under the old open tank system, where there is no pressure on the water whatever, aside from the actual pressure of the atmosphere.

We get much more rapid circulation in this system. As before stated, this rapid circulation is due to the increased pressure in an indirect way, which operates as follows:

The circulation of water in a hot water heating system, you understand, depends upon the fact that as water becomes heated, it becomes lighter, and naturally the hotter water being lighter will seek to float to the highest point of the system immediately. In doing this, it allows more cold water to enter the bottom of the boiler, which in turn becomes heated, so that this is a continuous process, as explained elsewhere in this book.

It will be remembered that we heat the water in our system to as high as 235 degrees, where in the old open tank system

the highest temperature that can be reached is 212 degrees. In other words, we can make water much hotter as it leaves the boiler in our system than it is possible to do under previous conditions. This can be very easily understood; we raise the water to a much higher temperature, as water becomes lighter as it becomes hotter, therefore the water is lighter in our system as it leaves the boiler than in any other. The water being lighter as it leaves the boiler means, of course, it will have a greater tendency to rise to the top than under old conditions. This tendency means no more or less than more rapid circulation. It will, therefore, be seen how this pressure operates indirectly to increase the rapidity of circulation in the system, and it is for this reason we call this device a Mercury Heat Circulator.

As to the working principles of the device, this hardly requires any detailed explanation. You need never bother about it after the day you connect it with your plant. There are absolutely no working parts to get out of order in any way. Seventy-five per cent of the people who are using our system and have these Mercury Circulators attached to their plants know absolutely nothing about its working principles. They simply followed our instructions, connected it with their plant, left it to its own resources and got results. These people never experienced one bit of trouble with this device after it was once connected with their plant, and it would be good for years and years without the least attention. Simply follow our blue print carefully in connecting this Mercury Heat Circulator and we will absolutely guarantee results.

It sometimes happens, however, in unscrewing the plugs, that are always inserted in the openings, some of the mercury is allowed to spill out. In a case of this kind, it is necessary to add sufficient mercury to make up for any loss that may have occurred, otherwise you would not get sufficient pressure on the plant nor the desired results.

There should be 5 1/4 lbs. of mercury in the bulb of this mercury heat circulator to get the right results. If you have spilled any of the quantity of this, the best scheme to follow is to unscrew the large round plug in the bottom of the bulb, hold it over a dish-pan and let all of the mercury run out, then weigh it carefully, and by subtracting the amount which you have from 5 1/4 lbs. you can determine how much it is necessary for you to add. After you have determined this, replace the large plug in the bottom of the Mercury Heat Circulator and remove the small plug in the side, carefully pour the mercury in at this opening, including the amount you have added, and after all the mercury is carefully poured in, replace this small plug and screw it in tight. You can then connect the Mercury Heat Circulator in the usual manner, being careful not to spill any of the mercury, and we will guarantee results.

Under normal conditions, of course, the mercury rests entirely in the bottom of the bulb. As soon as the water in the system becomes heated, however, it starts to expand and thereby presses down on the surface of the mercury in the bulb, which, having no other place to escape, gradually finds its way up in the small central tube, the end of which dips down in the mercury to within about 1/4 of an inch of the bottom of the bulb. The higher the mercury climbs in this tube, the greater the pressure. When the mercury has climbed to the highest point, there is approximately 10 lbs. pressure on the system. When the pressure gets to over 10 lbs., it will, of course, force all the mercury out of the bulb and up into the tube, and finally the water itself will start to climb into the tube. When this point is reached, the mercury is entirely displaced and a certain amount of water is allowed to escape to the expansion tank, which releases the pressure and absolutely prevents any higher pressure than 10 lbs. ever being obtained in the system.

The advantage of this device over valves of any kind can be readily appreciated when you remember that there is absolutely nothing to get out of order or become fastened so that the pressure at any time cannot be relieved.

Previous to the development of the mercury principle for maintaining this pressure, valves were generally used and the great risk which was incurred in placing these valves on systems of this kind was so strongly realized that many architects throughout the country forbid absolutely in their specifications the use of any valve or connection with the hot water heating system in the building. That is, a valve for the purpose of producing pressure on the system. We have yet to hear, however, of a single instance where one of these Mercury Heat Circulators have ever been ruled against on the ground of their being a dangerous improvement. There is absolutely no danger whatever connected with the use of these Mercury Heat Circulators in your plant, as it is impossible for the mercury to become fastened and prevent the water from relieving itself of an unduly high pressure.

Was your Hot Water Heating plant figured too light? Attach one of these mercury heat circulators and you will have no further trouble. We instruct you how to connect it.

## PRICES

No. 1 takes care of up to 1,500 sq. ft. radiation.....	\$12.00
No. 2 takes care of up to 3,000 sq. ft. radiation.....	25.00
No. 3 takes care of plants over 3,000 sq. ft. radiation.....	35.00



# OUR PERFECTION CAST IRON BOILERS

It is only proper that we should here say a word or two in regard to our Perfection Boilers. The boiler is the very heart of the entire plant, and if the boiler is not right, the plant certainly will not be right.

You have probably heard a whole lot of affrightening statements made about cast iron boilers; the sections will crack and the nipples that connect the sections will rust out, etc., and numerous other catastrophes that are sure to take place, according to manufacturers of steel boilers, if you put in a cast iron boiler.

## They Now Sell Cast Iron Boilers

If these are facts, why is it that these very same manufacturers have come out recently with a line of cast iron boilers? They simply had to. The public demand compelled them. The people know what they want and their judgment is generally infallible. It is results that count. If the cast iron boilers in use throughout the country were not doing excellent service and were not preferable to steel boilers, there would not be such a public demand, as compels these manufacturers to sit up and take notice, as they are now doing.

If you take a cast iron boiler and a steel boiler and put them both, one alongside of the other, each operating independent plants, it would not take a very long time to tell which was the superior boiler. It is a standing fact that steel is a substance which is very subject to rust. The same thickness of cast iron will last easily four times as long as the same thickness of steel, under any ordinary conditions, and especially under the very severe conditions which are met with in a heating boiler.

## Little Chance of Cracking

We admit that cast iron will crack, but we also maintain that a cast iron boiler, made up in small sections with flexible connections, so as to allow for the expansion and contraction, has very little chance of giving trouble from this cause. In fact, the chance is about one in one hundred, and after you once get your boiler set up, you have a boiler that is good for a lifetime, which is certainly not the case with a steel boiler.

The great trouble with steel boilers is that, owing to the intense heat of the fire, the connections at the end of the flues, where they are corked against the steel boiler plate, are bound to deteriorate in a very short time, and it will not be very long until you have a leaking boiler on your hands and one which will be a constant source of trouble and annoyance. Then it is a matter of putting in new flues, an expense of probably twenty-five or fifty dollars at least. Probably the shell of the boiler will stand for two or three sets of flues, but at the most about six to eight years is as much as you can ever expect out of a steel boiler, and at the end of that time it is practically good for nothing but the scrap pile.

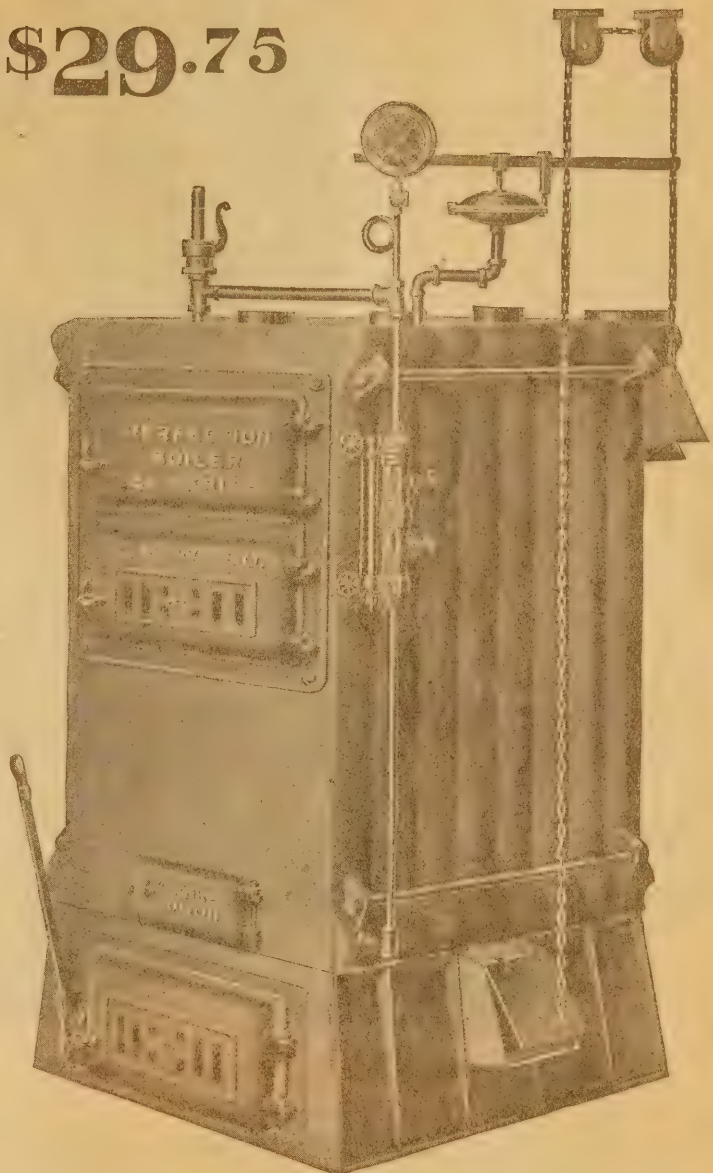
## No Flues to Be Renewed

On the other hand, compare the cast iron boiler. You will never have to put in any new flues. There is absolutely nothing about the entire boiler that can possibly deteriorate. Cast iron is practically rust proof, and when you put the boiler up it is there for a lifetime. You may have to put in new grates or something of that nature once in a while, but aside from this minor expense, your investment is a permanent one and one on which there will be absolutely no depreciation whatever.

As far as the rest of the plant is concerned, the piping and fittings, etc., are of course not subject to such severe service as the boiler, where the intense heat is, and they are certainly good for a lifetime.

Therefore, when you put in one of our plants, you can safely say that you are putting something into your house that will outlive your building.

# \$29.75



Prices quoted on Perfection Boilers listed on pages 142-144 and 145 are f. o. b. our factory in Western Pennsylvania. On application will quote prices f. o. b. Chicago or delivered to your railroad station.

## Twenty-five Year Guarantee

The great weakness of cast iron boilers, according to steel boiler manufacturers, is the connecting nipples. We have only one answer to this statement and that is, that we will not hesitate to give you an absolute twenty-five year guarantee on the nipples of your boiler, if you want it. If at any time within twenty-five years after you purchase your boiler, these nipples rust out and leak, we are willing to furnish you brand new nipples and stand all expense of replacing them. As a matter of fact, these nipples will last just as long as the boiler.



## Nipples Protected from Fire

We admit these nipples are made of steel, but be sure to remember that we protect them in a very effective manner. They are entirely coated with zinc to prevent rusting, and their position in the boiler being practically  $\frac{3}{4}$ " deep in the casting and entirely away from any action of the fire, renders them absolutely independent of the very intense heat, and this intense heat, together with the chemical gases of sulphur, etc., which are given off from the coal, are the most destructive agents to which steel is especially subject and against which cast iron is entirely proof. Therefore, these steel nipples being so thoroughly protected in this manner and being located in such a position in the boiler that the heat or destructive fumes can never reach them, it is not hard to understand how it is possible that these steel nipples should last as long as the boiler.

## Cast Iron Is Best

Cast iron is certainly the proper material to use for manufacturing boilers for house heating. It is all right to make boilers of steel when you are compelled to. Steel is the only practical material to use when you are building a boiler for power purposes and one which will have to stand up to a pressure of 100 to 200 or sometimes 300 pounds; but when it comes to a house heating boiler, in which the pressure will at the most never exceed 10 pounds, it is certainly advisable to sacrifice the mere matter of tensile strength of the material for more desirable advantages, such as durability and more efficient design, etc., which are the features of our cast iron Perfection Boilers.

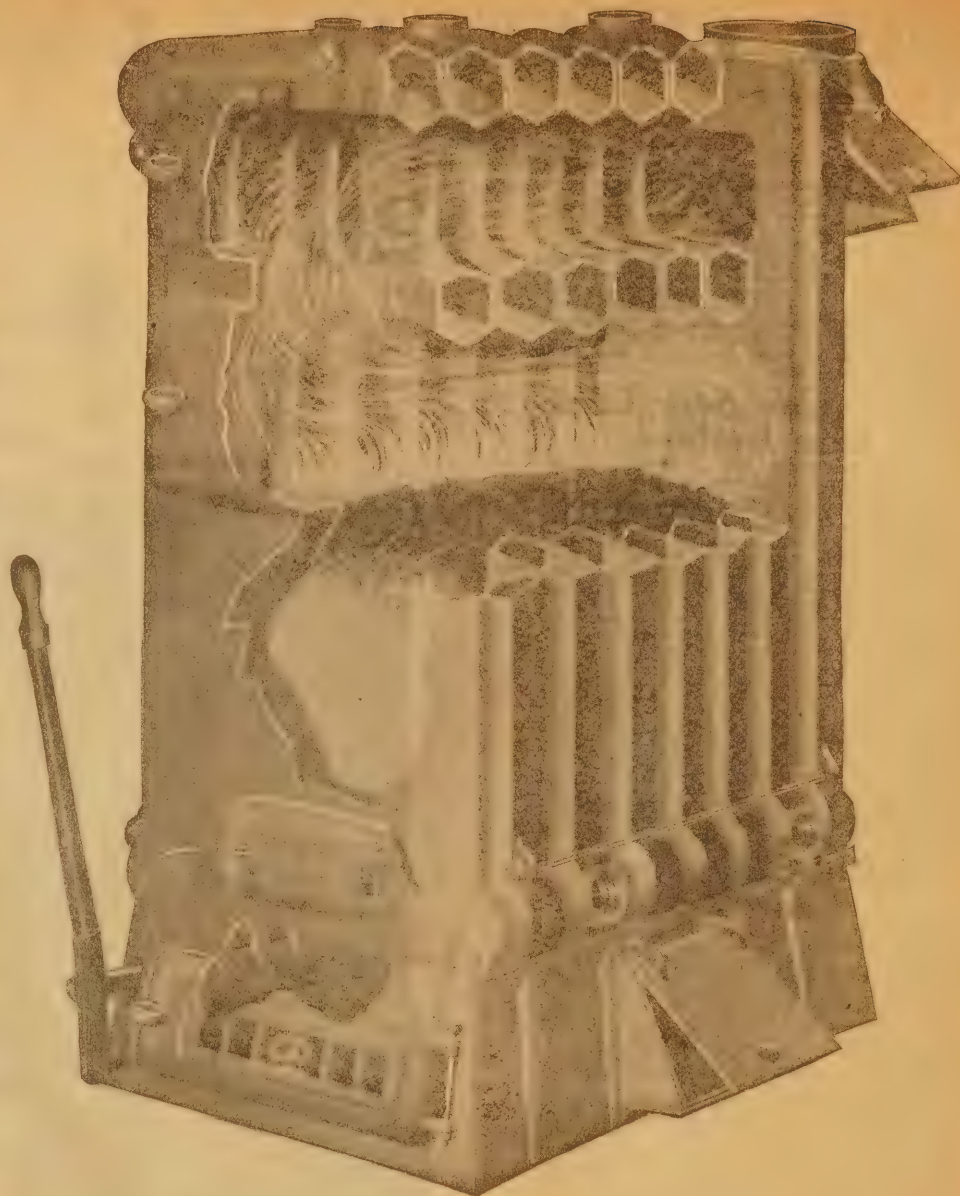
## Cast Iron Boilers Can Be Designed Better

It would be an impossible matter to make a boiler out of steel and make it in such a shape that the utmost efficiency of the fuel can be obtained. Cast iron can be made in practically any shape and it therefore lends itself to the designer's art most readily, so that the boiler can be designed to the highest point of efficiency and convenience, at the same time retaining those features, such as convenience for cleaning, etc., which are so essential in a house heating boiler.

## The Deep Fire Pot

The one feature of our boilers which shines out above all others, is the very deep fire pot. In this we have idealized one of the most important features that go toward making a house heating boiler perfect.

When you fire this boiler up, it is good for twelve hours, without any attention whatever. In case you are using a Hot



Water Plant, you can extend a chain from the dampers up through the floor and to an attachment on your wall in the living room and you can regulate the dampers upstairs, as is explained elsewhere in this book. It will positively be unnecessary for you to go down stairs in the basement to attend to the fire oftener than once in twelve hours.

If you find your rooms getting a little below the desired temperature, simply adjust the chain a short distance on the wall and you will in a very short time find that the temperature will go up to the proper point.

These boilers burn either hard or soft coal, and, in fact, we have in these positively reached the climax of boiler construction for residence heating.

## Prices and Dimensions

Number	Size of Fire Pot	Size of Smoke Pipe	Floor Space Including Smoke Box	Tappings at Flow and Return	Height to Water Line (In Steam Boiler)	Direct Water Radiation	Direct Steam Radiation	Shipping Weight in lbs.	Price for Water	Price for Steam w. Trimmings
64	13 x 12	7	22 x 23	2-2	38 1/2	300	150	590	\$29.75	\$37.75
65	13 x 15	7	22 x 27	2-2	38 1/2	400	225	675	41.00	49.00
66	13 x 18	7	22 x 31	2-2	38 1/2	500	300	835	50.00	58.00
67	13 x 21	8	22 x 35	3-2	38 1/2	600	375	915	55.00	63.00
68	13 x 24	8	22 x 39	3-2	38 1/2	700	450	941	60.00	68.00

Prices are all F. O. B. our factory in Western Pennsylvania. We will quote prices F. O. B. Chicago on request.



## These Boilers Burn any Kind of Coal

You can burn any kind of coal in these cast iron boilers; hard coal or soft coal. The great advantage which these boilers have as a soft coal burner lies in the ease with which they can be cleaned. The entire cleaning of the flues is done from the front of the boiler; simply open the clean-out door and run the flue brush through each flue opening two or three times, and the flues are bound to be cleaned in the most thorough manner possible. When this is done once every two or three days the utmost efficiency of the fuel will be obtained. Here is the great disadvantage of many boilers. When soft coal is used and a large amount of soot is generated, it is a very hard matter to keep the flue surfaces properly cleaned at all points so that the full amount of heat will be taken up from the fuel. The simplicity of the flue arrangement and also the ease with which these boilers can be cleaned, are their strongest points. Note that the entire fire pot is surrounded by water. The cold water being supplied to the bottom of the boiler gradually becomes heated, rises to the top and is taken off here with proper arrangement of piping to supply the various radiators.

## All Boilers Assembled Before Shipment

We do not ship any of our No. 60 or No. 170 series boilers with the sections unassembled. All sections are put together before the boiler leaves our foundry. The connecting rods fully tightened up and the boiler tested under a high pressure cold water test before it leaves our foundry. We, of course, ship the base castings and the miscellaneous front castings and rear smoke box, etc., separately packed in boxes so as to avoid the possibility of damage in shipment. When you receive the boiler all you have to do is to assemble the base castings, set the grates in position, put on the front trimmings and the rear smoke box, etc., and the boiler is ready for action.

## All These Boilers Tapped for Water Coil

Every one of our No. 60 and 170 series boilers are properly tapped in the rear of the fire box to provide for the insertion of a water heating coil so that you can heat water for domestic purposes. This makes a very convenient arrangement in connection with your heating system, as you can connect up a coil in the fire box of the boiler with your range tank, which may be located right alongside of the boiler in the basement or on the floor above, if you prefer, and with an arrangement of this kind it will not be necessary for you to start your kitchen stove every time you want hot water. The additional expense of a coil of this kind is very slight, and if you place an order for a heating plant with us, we would suggest that you include one of these coils, as it will certainly be a great convenience. As before stated, these boilers are all properly tapped so that this coil can be inserted any time, and should you not wish to put the coil in immediately, you can, of course, leave the matter go until whatever time you may need it. It is then simply a matter of removing two small cast iron caps from the openings in the back of the boiler and the coil can be properly set in place, as above explained.

## The High Ash Pit

Another very important feature about these boilers is the high ash pit, which renders burning out of the grates almost impossible. A free circulation of air can always be kept up under the grates, and should the matter of removing the ashes be overlooked for a time, the ash pit is sufficiently high to keep the ashes away from the grates and allow for the free circulation of air for two or three days, if necessary. You will very seldom have to renew any of the grates in these boilers, as the chances of burning them out are very slight.

## All Parts Interchangeable

Every individual casting or minor part of any kind that goes to make up this boiler can be readily duplicated by us at any time that it may be necessary. This line of boilers is a regular line which we are constantly manufacturing, and we can always duplicate any of the parts of this boiler. Every casting is properly numbered, and should any particular part of the boiler



become broken in any way, all you have to do is to drop us a line, give us the number of the casting, and we will be able to duplicate the part at once without any delay whatever. The prices of all the various parts of these boilers are very reasonable and any of the various castings can be replaced at a very slight expense.

## You Can Add More Sections If You Wish

Another great advantage of these cast iron, sectional boilers lies in the fact that you can insert one or more sections and increase the capacity of the boiler at any time you may desire. When you get your plant installed, you might have occasion to add a room or two to your house, or probably you might want to heat up some rooms that were not figured when the boiler was originally set in place, and in this case, all you have to do is to insert another section or two in the boiler and you will be fully equipped to take care of this additional radiation. Additional sections can be procured from us at any time, and it is not a difficult matter to insert them. You will, no doubt, fully appreciate the great advantage of this feature of these boilers, as you can always increase their capacity, and whenever it may be necessary to provide for additional radiation, you will not have to take out your entire boiler and replace it with a new one.



## The Clinker Door

With the aid of the clinker door, it is possible to remove all dead coals or clinkers which may be in the bottom of the fire and too large to pass through the rocking grates. These clinkers can be removed bodily through the clinker door and this makes it practical to use such a deep fire pot as we do in these boilers, and does away with all disadvantages which such a deep fire pot might have were it impossible to get at the fire underneath, as we are able to do with the aid of this clinker door.

## The Rocking Grates.

Every grate bar in our boilers is mounted on an axis and connects with a common connecting bar underneath. This connecting bar is attached to a lever located at the side of the boiler, as shown in these illustrations, and by operating this lever every grate bar in the entire boiler can be made to rock and the top of the grate surface on which the fire bed rests is converted into a veritable grinding machine when these grates are being shaken, and it only takes very little shaking of these grates to get all of the surplus ashes out of the fire bed and get the fire going with a bright red heat through the entire grate surface of the boiler. These grates positively prevent any dead corners in these boilers, as any ashes that might collect in these corners will always find its way down, and once it reaches these grinding grates, it is bound to be discharged into the ash box.

## The Regulating Dampers

All our Perfection Boilers are equipped with regulating check dampers, located in such a manner that one damper counteracts the other, and when connected on a chain system they can be adjusted in such a way that when one damper is open, the other is closed, vice versa. This gives a maximum amount of control of the drafts and requires very little adjustment to increase or diminish the drafts to a very considerable extent, as may be desired.

## We Furnish Our Boilers Complete

When an order is placed with us for a heating plant, every item that is necessary in connection with the boiler is furnished complete. If it is a steam heating plant, we furnish complete steam trimmings, including cast iron combination water column, try cocks, water gauge, complete with guard rods, gauge cocks, pet relief cock, etc., and cast iron diaphragm damper regulator, with rubber diaphragm, working beam, chain and pulleys for regulating the dampers; low pressure steam gauge, complete with syphon and pop safety valve. All of these trimmings are high grade and guaranteed flawless, and each is fully tested before shipment.

In the case of a Hot Water Heating Plant, we furnish the boiler complete with a straight Mercury Hot Water Thermometer and Altitude Gauge, with a red hand indicator, which can be set at the proper point when the system is found to be full.

## Connecting Push Nipples

Every one of our cast iron boilers are assembled and the sections are connected together with zinc coated push nipples of proper taper and size to exactly fit the reamed tapered holes in the

castings. These tapering push nipples, as has already been mentioned, are fully  $\frac{3}{4}$ " deep away from the fire, and the heat from the fire can never come close enough to have any effect whatever upon them, and they are absolutely protected against the action of the sulphurous gases from the coal. The way these nipples are protected in our boilers render them as indestructible as any part of the entire boiler, and we are safe in saying that these nipples will outlast the boiler itself, and the boiler is good for a lifetime.

## Prices and Dimensions

Number.	Size of Fire Box.	Size of Smoke Pipe.	Floor Space	Size and No. of Flow Taps.	Size and No. of Return Taps	Height of Water Line.	Height of Heater.	Square Ft. of Water Radiation	Square Ft. of Steam Radiation	Shipping Weight in lbs.	Hot Water	Price steam with Full Set Steam Trimmings
175	17" x 17"	8"	27' x 31'	2-2 $\frac{1}{2}$ "	2-2 $\frac{1}{2}$ "	48 $\frac{1}{2}$ "	58"	700	425	941	\$55.00	\$63.00
176	17" x 21 $\frac{1}{2}$ "	8"	27' x 36'	2-2 $\frac{1}{2}$ "	2-2 $\frac{1}{2}$ "	48 $\frac{1}{2}$ "	58"	900	525	1123	73.00	81.00
177	17" x 26 $\frac{1}{2}$ "	9"	27' x 41'	3-2 $\frac{1}{2}$ "	2-2 $\frac{1}{2}$ "	48 $\frac{1}{2}$ "	58"	1050	625	1305	83.00	91.00
178	17" x 30"	9"	27' x 46'	3-2 $\frac{1}{2}$ "	2-2 $\frac{1}{2}$ "	48 $\frac{1}{2}$ "	59"	1250	725	1487	99.00	107.00

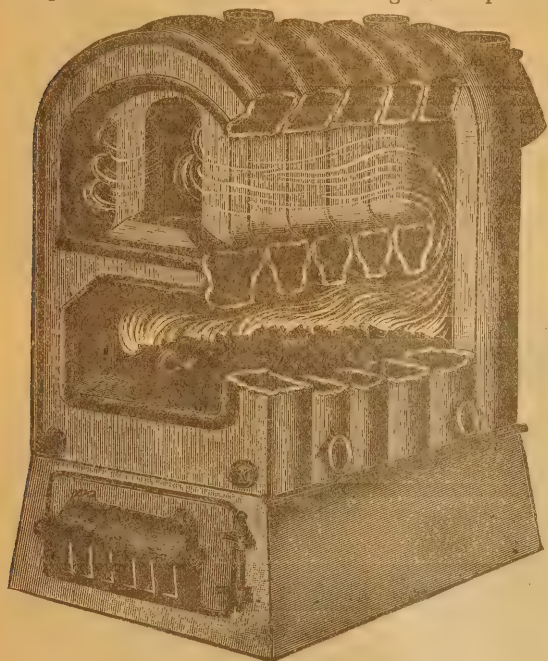




## Cast Iron Sectional Boilers for Large Plants

We are in position to furnish larger sized cast iron boilers, where larger plants are to be supplied, than our No. 60 and 170 Series Boilers will be able to accommodate. For these larger sized plants we have a line of larger sized cast iron sectional boilers. These boilers are brand new and of similar construction to our other boilers described on the preceding pages, except that the fire box is more extended, broader and shallower, as this construction gives better satisfaction in large boilers of this kind.

Our 80 series boiler is designed similar to the sectional illustration as shown on this page. Our 90 series boiler is a much larger type of boiler and has a greater number of flue spaces. We will be glad to submit complete sectional blue print of this 90 series boiler on request. It is built of course for larger sized plants and is one of the best cast iron sectional boilers of the larger type on the market at the present time. The prices quoted on these boilers are very low, considering their size and capacity and their efficient construction and design. We guarantee these boilers to give absolute satisfaction in every way.



OUR No. 80 SERIES BOILERS  
Dimensions and Prices as per Cut Shown on This Page

No.	Size of Grate	Size of Smoke-pipe	Floor Space	Height of Boiler	Height of Water Line	Tappings, Flow and Return	Direct Water R'diat'n	Direct Steam R'diat'n	Price for Water	Price for Steam with Trimmings
84	21x21	8	29x32	50	4 1/4	1-3	675	400	\$ 75.50	\$ 84.50
85	21x27	8	29x38	50	4 1/4	1-3	850	525	89.00	97.50
86	21x33	9	29x44	50	4 1/4	1-3	1050	650	107.50	115.70
87	21x39	9	29x50	50	4 1/4	2-3	1275	775	128.50	133.50

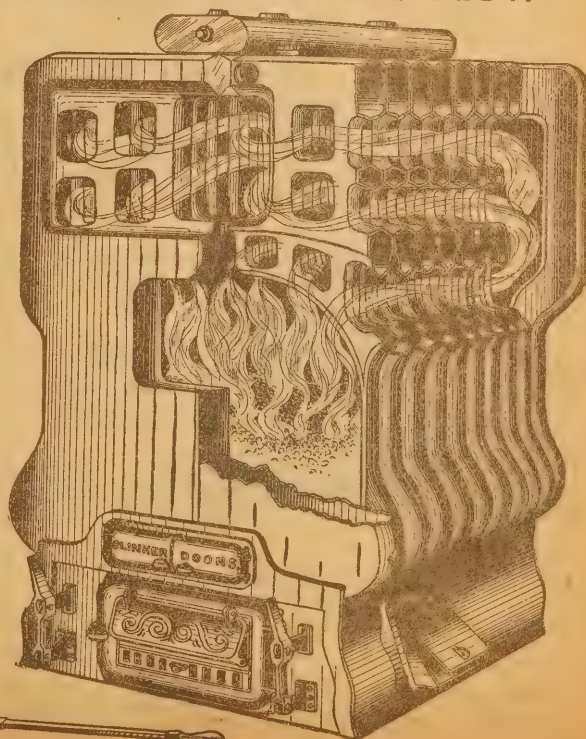
OUR No. 90 SERIES BOILERS  
Complete blue prints of this 90 series boiler will be furnished on application.

No.	Size of Grate	Diam. Smoke-pipe	Floor Space	Tappings and Flow and Return	Direct Steam Radiation	Direct H. W.	Price of Steam	Price of Hot Water	Weight
95	33x35	12 in.	48x42	2-4 in.	1500	2500	\$214.50	\$206.50	4100
96	33x41	12 in.	47x48	2-4 in.	1800	3000	253.50	245.50	4500
97	33x48	14 in.	47x53	2-4 in.	2100	3500	297.70	289.50	4900
98	33x54	14 in.	47x59	3-4 in.	2400	4000	331.50	323.50	5450
99	53x60	16 in.	47x65	3-4 in.	2200	4500	351.00	343.00	5850

The above boilers are all shipped in separate sections and can be set up right on the job.

## Perfection Boiler, No. 36 Series. Sectional View

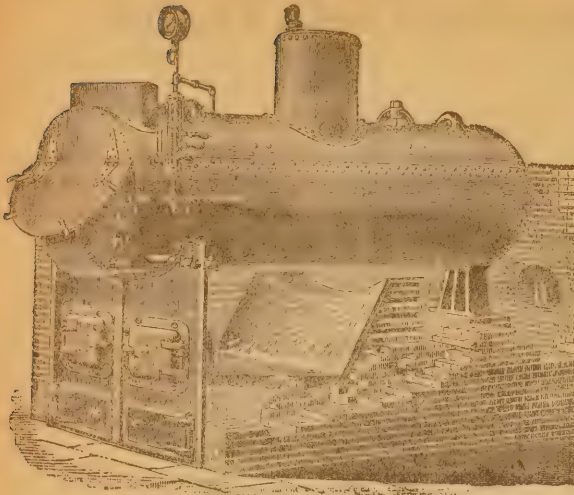
The sectional view shown herewith will give a very clear idea of the internal construction of our Series 36 Boiler, the deep fire pot with enormous flue space exposed to the action of heated gases. The heated gases surround the row of overhanging flues, and travel to the back of the boiler, then forward through the flue spaces on either side of the boiler, and double back through the large flue area in the center. The deep fire pot in this insures the same slow, perfect combustion of the fuel as in our smaller boilers. The boiler also has the improved smoke box extension shown with our Perfection boilers. These boilers are a very perfect hot water boiler as well as a perfect steam boiler. The clinker doors are large, and enable one to remove the clinkers without grinding them up to entirely clean out the fire box. The Water Boilers of this series are built practically the same as the Steam.



Number of Heater	Number of Section	Size of Grate	Total Height of Boiler in Inches	Size of Smoke Connection	Floor Space Including Smoke Box	Size of Flow Tappings	Size of Return Tappings	Capacity sq. ft. of Direct Water Radiation	Capacity Direct Steam Radiation
W36-6	6	36 x 33	73	14	52 x 47	1-5	2-4	2900	1775
W36-7	7	36 x 39	73	14	52 x 54	2-5	2-4	3500	2150
W36-8	8	36 x 45	73	15	52 x 60	2-5	2-4	4100	2550
W36-9	9	36 x 51	73	15	52 x 66	2-5	2-4	4900	2950
W36-10	10	36 x 57	73	16	52 x 73	2-6	2-4	5500	3350
W36-11	11	36 x 63	73	17	52 x 80	2-6	2-4	6100	3750
W16-12	12	36 x 69	73	18	52 x 87	2-6	2-4	6700	4150

PRICE ON APPLICATION





## Horizontal Tubular Boilers

We have always in stock any number of good rebuilt Horizontal Tubular Boilers, ranging in size from 30 inches diameter by 8 feet in length up to 72 inches diameter by 20 feet in length; or, in other words, from 10 to 175 horse power, with a capacity of 1,000 to 18,000 feet of radiation. These boilers are thoroughly overhauled before shipment. On large heating jobs we recommend their use. If you will give us plans and information as outlined on another page of this book, we can better estimate your requirements, and will make you a proposition on a complete tubular boiler ready for installation. Can furnish these with or without domes. They are practical for either steam or hot water heating. Following are the general specifications of what we have to offer in these boilers:

Nominal Horse Power.....	12	15	15	20	28	34	40	45	50	60	70	85	100	125
Capacity, sq. feet, Direct Steam Radiation*.....	1000	1200	1400	1800	2600	3100	3600	4700	5500	6900	8000	7200	9000	11500
Diameter, inches.....	30	30	36	36	42	42	42	48	48	54	54	60	66	72
Length Tubes, feet.....	8	10	8	10	10	12	14	12	14	14	16	16	16	16
Thickness Shell, inches.....	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
Thickness Heads, inches.....	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
Diam. Stack, if vertical, ins.....	14	14	16	16	20	20	20	24	24	26	28	28	32	36

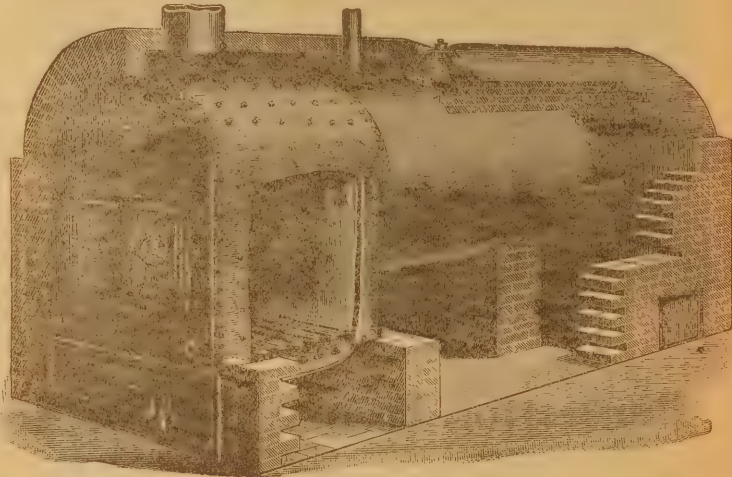
\*In computing water radiation add 40 per cent to steam capacity.

Where we furnish horizontal Tubular Boilers to be set in brick work, we will furnish without additional charge blue print plans showing the brick setting. These boilers are particularly desirable in greenhouse heating. We remodel steam boilers into water boilers for greenhouse heating when water is to be used. Our boilers when overhauled and rebuilt will give you practically as good service as new boilers, and our prices will be found very much less than new. We have boilers of the same general specifications as above in strictly first-class condition to be used for power up to 100 or 150 lbs. pressure. Write us for anything in this line that you may need. Prices on any of the above boilers furnished on application.

## Fire Box Boilers

Our stock of Fire Box Boilers is constantly changing, but we always have on hand upwards of fifty or one hundred boilers in various sizes for heating jobs. We recommend the use of these boilers where a low priced economical boiler is required. These boilers are all thoroughly overhauled by us, carefully cleaned inside and out, and any repairs that may seem necessary to put them in Al condition are made. We thoroughly test our boilers here and guarantee them. The Fire Box Boilers can be brick set as shown in this illustration, or can be set without brickwork. We will furnish the boilers with smoke box extension and stack connection, so that they can be set without brickwork when desired. In steam jobs we furnish the boilers with a complete set of steel trimmings. Following is the rating of standard sizes:

Diameter of Shell, inches.....	30	30	30	36	36	36	42
Length over all, feet.....	6 $\frac{1}{2}$	7 $\frac{1}{2}$	8 $\frac{1}{2}$	7 $\frac{1}{2}$	9	10 $\frac{1}{2}$	8 $\frac{1}{2}$
Size of Smoke Stack, inches.....	16	16	16	18	18	18	20
Capacity, direct steam.....	900	1000	1200	1400	1700	2100	2200
Capacity, direct water.....	1400	1600	1900	2200	2700	3400	3500
Diameter of Shell, inches.....	42	42	48	38	48	54	54
Length over all, feet.....	10	11 $\frac{1}{2}$	10 $\frac{1}{2}$	12	13 $\frac{1}{2}$	14	16
Size of Smoke Stack, inches.....	20	20	22	22	22	24	24
Capacity, direct steam.....	2500	2900	3200	3800	4400	4900	5800
Capacity, direct water.....	4000	4600	5100	6100	7000	7800	9300



## Rebuilt Boilers for Heating Purposes

We have at the present time about 200 second-hand heating boilers that have come into our possession through dismantling the St. Louis Exposition or other large institutions. Among these boilers are locomotive, fire box type, the horizontal tubular boiler, vertical tubular boiler, economic return tubular boiler, greenhouse heating boilers and cast iron sectional boilers. All the boilers which we offer in this list will be put through our boiler shop, thoroughly overhauled, and cleaned inside and outside, and any repairs that may be necessary to put them in strictly first-class condition, will be made. We have facilities for building boilers and for thoroughly repairing them. Every boiler we send out will not only be thoroughly repaired, but will be tested to a hydrostatic pressure of at least Fifty Pounds, and fully guaranteed. If you do not find just exactly what you want in this list, we will be glad to have you write us as to your requirements.

In the fire box patterns we have the following:

**No. J. 41.** One Water Bottom Fire Box Boiler, 32 ft. x 9 in., with a capacity of 1,500 ft. steam or 2,500 ft. hot water radiation. Complete with smoke box extension, smoke head door, fire door, ash door, grate bars, with two hand holes. This boiler is extra well braced. Total height of boiler 57 in., grates 36x25 in., 26 3-inch flues. It was used for high pressure steam, and is made of very heavy boiler plate.

**No. J. 42.** One Fire Box Boiler, 42 in. x 9 ft., capacity 2,200 ft. steam radiation. This boiler is not adapted for hot water, but would make a capital boiler for heating a greenhouse with steam. It has a dome and four handholes. It is extra well braced, horizontal seams double riveted. Has been used as high pressure boiler. Grates 42 in. x 36 in., 105 2-inch flues. Complete with smoke box extension and smoke head doors.

**No. J. 43.** One Open Bottom brand new fire box boiler, 44 in. in diameter by 10 ft. 3 in. long, capacity 3,000 steam or 5,000 feet hot water radiation. This boiler is made of  $\frac{1}{2}$  in. shell and  $\frac{1}{4}$  in. heads. Has 48 3-inch flues and fire box is 36x43 in. Fire door is 10x15 in. Boiler has two hand holes in front of fire box at bottom and one at top. Has 4 in. flow tap on top and 3 in. return tap on bottom and back of fire box. Boiler is without smoke box extension and is designed to be brick set.

**No. J. 44.** One Fire Box Boiler, 42 in. x 14 ft. with dome, with a capacity of 3,500 ft. steam or 5,000 ft. of hot water radiation. Grates 36x50 in., 38 3-in. flues. Complete with fire door and ash door, smoke box extension, and smoke head door.

In the Horizontal Tubular Boilers to be set up in brick work, we have a very large stock, ranging in all sizes. The following are but a few of these boilers that will give you an idea of the price of the different sizes:

**No. J. 401.** One Horizontal Tubular Boiler, 30 in. x 8 ft., capacity 1,400 ft. steam and 2,100 ft. hot water radiation. 20 3-inch tubes. Shell  $\frac{1}{2}$  in. thick, heads  $\frac{3}{8}$  in. thick. Boiler complete with smoke box extension, smoke head door, stack saddle, fire front, grate bars, bearing bars, back arch frame, ash door and frame, and with a set of fire tools.

**No. J. 402.** One 36 in. x 10 ft. Horizontal Tubular Boiler with dome, and with manhole on top and one handhole in the end, 26 3-in. flues. Horizontal seams, double riveted. Capacity 2,200 ft. steam and 3,500 ft. hot water radiation.

**No. J. 403.** One Horizontal Tubular Boiler 42 in. x 10 ft. Has a dome and manhole. Has 18 3-in. flues. Made of  $\frac{1}{2}$  in. shell and  $\frac{3}{8}$  in. head. Horizontal seams double riveted. Complete with smoke box extension, with front including fire and ash doors, bearing bars, grate bars, soot frame and door, and a full set of steam fittings. The boiler will be put through our shops and given an overhauling, all necessary repairs being made to put it in first-class condition. Capacity 3,600 ft. steam and 4,200 ft. water radiation.

**No. J. 405.** One horizontal tubular boiler 42 in. by 18 ft. with dome and manhole.  $\frac{1}{2}$  in. shell and  $\frac{1}{4}$  inch head. Horizontal seams double riveted, 34 3-inch flues. Has side lugs. Capacity 4,000 ft. steam or 6,500 feet hot water radiation. Furnished with smoke box extension, clean out door, two doors, ash frame and doors, soot frame and door with bearing bars and grate bars.

## For Large Steam or Hot Water Plants

We recommend these Second-Hand Horizontal Tubular Fire Box Boilers. They are for all practical purposes, just as good as new. **WRITE FOR PRICES** We are quoting prices on these boilers, which do not represent one-half their actual value. The above represents only a very small number of the boilers we have in our yard at the present time. We can quote you on practically any size boiler manufactured and we guarantee a saving of at least 50 per cent.



## Ornamental New Radiation.

## New Radiation.

### THREE COLUMN CAST IRON

## Radiation.

### REBUILT.



TWO-COLUMN

CAST IRON  
RADIATORS  
FOR STEAM  
OR WATER

OWING  
TO MARKET  
FLUCTUA-  
TIONS  
PRICES ON  
RADIATION  
ARE  
SUBJECT  
TO CHANGE



Prices quoted on this page are f. o. b. our factory in Western Pennsylvania. On application will quote prices f. o. b. Chicago or delivered to your railroad station.

### SPECIAL NOTE.

We can also furnish the above two column radiation in the absolutely plain pattern at same price. This plain pattern radiation has a perfectly smooth surface, and is the very latest thing in radiation.

Unless otherwise specified, we furnish the above three-column pattern of radiation on all our heating plants.

### PRICES PER FOOT

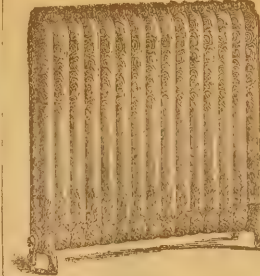
Height, inches....	45	38	32	26	20
Steam Radiation..	\$0.18	\$0.18	\$0.23	\$0.25	\$0.27
Hot Water Radi'n.	.19	.19	.23	.25	.27

3 COLUMN		HEATING SURFACE, SQ. FEET				
No. of Sections	Length in inches	45 inch, high, 6 sq. feet per Section	38 inch, high, 5 sq. feet per Section	32 inch, high, 4 sq. feet per Section	26 inch, high, 4 sq. feet per Section	20 inch, high, 2 sq. feet per Section
2	5	10	15	20	25	30
3	7½	15	22½	30	37½	45
4	10	20	30	40	50	60
5	12½	25	37½	50	62½	75
6	15	30	45	60	75	90
7	17½	35	52½	70	87½	105
8	20	40	60	80	100	120
9	22½	45	67½	90	112½	135
10	25	50	75	100	125	150
11	27½	55	82½	110	137½	165
12	30	60	90	120	150	180
13	32½	65	97½	130	162½	195
14	35	70	105	140	175	210
15	37½	75	112½	150	187½	225
16	40	80	120	160	200	240
17	42½	85	127½	170	212½	255
18	45	90	135	180	225	270
19	47½	95	142½	190	237½	285
20	50	100	150	200	250	300
21	52½	105	157½	210	262½	315
22	55	110	165	220	275	330
23	57½	115	172½	230	287½	345
24	60	120	180	240	300	360
25	62½	125	187½	250	312½	375

### TAPPINGS

All Radiators containing 26 feet or under, 1 inch.  
All Radiators containing above 26 feet but not exceeding 60 feet, 1½ inch.  
All Radiators containing above 60 feet but not exceeding 112 feet, 1½ inch.  
All Radiators containing above 112 feet, 2 inch.  
Each Section is 9½ inches wide; width of Legs, 10½ inches.  
Distance from floor to center of tapping, 5 inches.

Note.—In ordering, always mention whether for steam or water, and if for steam, whether for one or two pipe, or for atmospheric or vapor system. For steam, one pipe tapping will be regularly supplied, unless otherwise specified.



Cast Iron Radiator.

In connection with our purchasing and dismantling, we secure large numbers of fine radiators. We have them in all styles, for steam and water; for factory, residence, public halls, and other purposes. If you will write us your requirements in the heating line, we will make you a proposition to furnish you all of the material necessary to install your plant. Write us your wants. We can save you money. At the present time our stock of rebuilt radiators includes anything you require. They are in fine condition, have been rebuilt, and every radiator is tested under cold water pressure before shipment. You can purchase without hesitation. We guarantee them. Our stock consists of the following:

### CAST IRON RADIATORS.

Our stock consists of 2 and 3 column steam and water radiators, ranging in heights from 18 to 45 inch. We can furnish almost anything required in 38 inch radiators, either 2 or 3 column. These radiators are standard size, and contain 4 sq. feet of heating surface to the 2 column, and 5 sq. feet to the 3 column. They are very ornamental in pattern, and suitable for the best residence purposes. Prices as follows:

### For Steam.

Heights up to 24 inch, price per square foot of heating surface.....	\$0.18
Heights from 24 to 32 inch, inclusive, per square foot of heating surface.....	.17
All other heights, per square foot of heating surface.....	.15

### For Water.

Heights up to 24 inch, price per square foot of heating surface.....	\$0.18
From 24 to 32 inch, inclusive, per square foot of heating surface.....	.17
All other heights, per square foot of heating surface.....	.16

## An Exceptional Offer.



Pipe Radiator.

We purchased the entire Heating Equipment of one of the largest buildings in Chicago.  
15,000 sq. feet of good sound second hand pipe radiation, runs in sizes 60 to 150 sq. feet to the radiator. Just the thing for heating factories, churches or large buildings of any kind. Every radiator fully tested and guaranteed before shipment.  
This radiation is positively just as good as brand new in every way. While it lasts, we will sacrifice it at 13 ct. per sq. foot.

You could not buy the Pipe alone for less than that. These are standard pipe radiators made up with upright pipes screwed into a castiron base.

## Let Us Make You a Proposition on Your Complete Heating Plant.

### NET CASH PRICES PER SQUARE FOOT OF HEATING SURFACE

Height, inches....	45	38	32	26	20
Steam Radiation..	\$0.18	\$0.18	\$0.23	\$0.25	\$0.27
Hot Water Radi'n.	.19	.19	.23	.25	.27

2 COLUMN		HEATING SURFACE, SQ. FEET				
No. of Sections	Length, 2½ inches per Section	45 inch, high, 6 sq. feet per Section	38 inch, high, 5 sq. feet per Section	32 inch, high, 4 sq. feet per Section	26 inch, high, 4 sq. feet per Section	20 inch, high, 2 sq. feet per Section
2	5	10	15	20	25	30
3	7½	15	22½	30	37½	45
4	10	20	30	40	50	60
5	12½	25	37½	50	62½	75
6	15	30	45	60	75	90
7	17½	35	52½	70	87½	105
8	20	40	60	80	100	120
9	22½	45	67½	90	112½	135
10	25	50	75	100	125	150
11	27½	55	82½	110	137½	165
12	30	60	90	120	150	180
13	32½	65	97½	130	162½	195
14	35	70	105	140	175	210
15	37½	75	112½	150	187½	225
16	40	80	120	160	200	240
17	42½	85	127½	170	212½	255
18	45	90	135	180	225	270
19	47½	95	142½	190	237½	285
20	50	100	150	200	250	300
21	52½	105	157½	210	262½	315
22	55	110	165	220	275	330
23	57½	115	172½	230	287½	345
24	60	120	180	240	300	360
25	62½	125	187½	250	312½	375

Each Section 7½ inches wide. Width of legs 8 inches.

### TAPPINGS.

All Radiators containing 20 feet or under, 1 inch.  
All Radiators containing above 26 feet but not exceeding 60 feet, 1½ inch.  
All Radiators containing above 60 feet but not exceeding 112 feet, 1½ inch.  
All Radiators containing above 112 feet, 2 inch.



## RADIATOR VALVES.



No. 5-A-178. Jenkins' Disc Angle Radiator Valve, with Union, nickel plated all over.

Size Inches	Price Each
1	\$0.65
1 1/4	.80
1 1/2	1.10
1 3/4	1.40
2	2.25

No. 5-A-174. Jenkins' Disc Corner Radiator Valves with Union, nickel plated all over. Made of heavy steam metal. Fully guaranteed. These valves are made for both right and left hand corners.

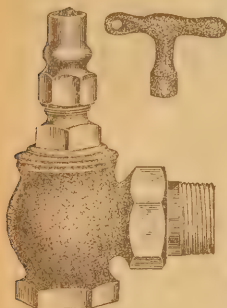
No. 5-A-175. For right hand corner.

Size Inches	Price Each
1	\$0.80
1 1/4	1.00
1 1/2	1.35
1 3/4	1.76
2	2.80



No. 5-A-176. For left hand corner.

Size Inches	Price Each	Size Inches	Price Each
1	\$0.80	1 1/4	\$1.75
1 1/4	1.00	2	2.80
1 1/2	1.35		

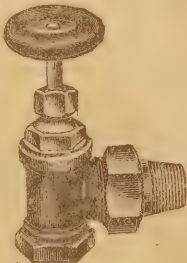


## LOCK SHIELD RADIATOR VALVES.

No. 5-A-177. Jenkins' Disc with Union, nickel plated all over.

Size Inches	Price Each
1	\$0.65
1 1/4	.80
1 1/2	1.10
1 3/4	1.40
2	2.25

Extra keys. . . . .08



No. 5-A-180. Hot Water Union Elbows, nickel plated all over.

Size Inches	Price Each
1	\$0.35
1 1/4	.44
1 1/2	.54
1 3/4	.70
2	1.17



No. 5-A-181. Nickel Plated Compression Radiator Air Valves. Size, 1/2 inch. Price, each. . . . . \$0.08 Price, per dozen. . . . . .90



No. 5-A-183. Nickel Plated Compression Radiator Air Valves with wood wheels. Size, 1 1/2 inch. Price, each. . . . . \$0.10 Price, per dozen. . . . . 1.00

No. 5-A-182. Nickel Plated Compression Radiator Air Valves, Lock and Shield. Size, 1/2 inch. Price, each. . . . . \$0.10 Price, per dozen. . . . . 1.00



No. 5-A-184. Nickel Plated Automatic Radiator Air Valves for steam.

Size of connection pipe thread. Price, each. . . . . \$0.40 Price, per doz. . . . . 4.50

## PIPE HANGERS.



Can be cut to all desired lengths by disconnecting two lower screws. The most practical pipe hanger on the market. Easy to adjust and can be put up in less than half the time of the ordinary hanger.

No. 5-A-185. Adjustable length, 2 to 10 in.

Pipe Inches	Each	Pipe Inches	Each
1	\$0.07	2 1/2	\$0.12
1 1/4	.08	3	.14
1 1/2	.08 1/2	3 1/2	.15
2	.10	4	.18



No. 5-A-186. Adjustable length, 10 to 16 in.

Pipe Inches	Each	Pipe Inches	Each
1	\$0.08	2 1/2	\$0.13
1 1/4	.09	3	.15
1 1/2	.10	3 1/2	.16
2	.11	4	.19

## HOT WATER THERMOMETERS

Used in connection with hot water heating plants, registering up to 220 degrees. Guaranteed accurate. Each Thermometer is carefully packed in a separate wooden box.

No. 5-A-187. Straight Thermometers as shown in illustration.

Price, each. . . . . \$0.75

No. 5-A-188. Angle Thermometer for use on risers or circulating pipes. Price, each. . . . . \$0.80

## ALTITUDE GAUGES.

No. 5-A-189. Altitude Gauges are used for indicating the height of water in a hot water heating system. The figures indicate the height of water in feet. The red hand is movable. When you determine the height of water to just fill the system correctly, set the red hand at that point and then the indicating hand should be right on top of it.



Any deviation of pointer indicates change in level of water. Each. . . . . \$1.25

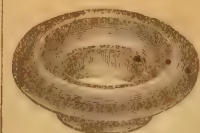
## GALVANIZED STEEL EXPANSION TANKS.

These are used in connection with hot water heating plants. Water gauge not included at prices quoted.



Capacity gallons	Size Inches	Sq. feet of radiation	Price Each
No. 5-A-190	8	10x20	250
No. 5-A-191	10	12x20	300
No. 5-A-192	12	12x24	400
No. 5-A-193	15	12x30	500
No. 5-A-194	18	12x36	600
No. 5-A-195	20	14x30	700
No. 5-A-196	24	14x36	850
No. 5-A-197	26	16x30	1000
No. 5-A-198	32	16x36	1300
No. 5-A-199	42	16x48	2000
No. 5-A-200	66	18x60	3000
No. 5-A-201		Water gauge set	.60

## NICKEL PLATED FLOOR AND CEILING FLANGES.



Flange. Size Inches	Price Each
No. 5-A-202	Floor
1	\$0.04
1 1/4	.05
1 1/2	.06
2	.07
	.09

No. 5-A-203. Ceiling

Flange. Size Inches	Price Each
No. 5-A-203	Ceiling
1	\$0.06
1 1/4	.07
1 1/2	.08
2	.09
	.12



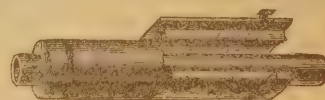
## WOOL FELT SECTIONAL PIPE COVERING.



No. 5-A-205. Especially recommended for hot water heating plants or for low steam pressures. This covering is made of soft corrugated wool felt with interlining of two layers of asbestos felt, and finished with a canvas jacket. It comes in sections 3 feet long, and is furnished with sufficient metal bands to securely fasten it to the pipe. Thickness of this covering 1/2 inch.

Inside dia. Inches	Price per Section of 3 ft.	Elbows Each	Tees Each	Inside dia. Inches	Price per Section of 3 ft.	Elbows Each	Tees Each
1	\$0.13	\$0.07	\$0.08	3 1/2	\$0.27	\$0.11	\$0.12
1 1/4	.15	.07	.08	4	.30	.12	.14
1 1/2	.16	.07	.08	4 1/2	.36	.13	.17
1 3/4	.18	.07	.08	5	.42	.20	.26
2	.20	.07	.08	6	.48	.29	.55
2 1/4	.22	.08	.09	7	.60	.40	.68
2 1/2	.24	.09	.11	8	.66	.52	.66

## MOULDED ASBESTOS PIPE COVERING.



This form of covering is offered as the most durable and effective non-conducting covering yet produced. It is absolutely fireproof and is made in sections in the various sizes, 3 feet long, which are finished with canvas jackets, and provided with sufficient metal bands to securely fasten it to the pipe. Thickness of covering 1 inch.

Size to fit standard pipe, Inside diameter Inches	Price per section of 3 ft. including Bands	Elbows Each	Tees Each
No. 5-A-204			
1	\$0.14	\$0.07	\$0.08
1 1/4	.16	.07	.08
1 1/2	.18	.07	.08
1 3/4	.20	.07	.08
2	.22	.07	.08
2 1/4	.25	.08	.09
2 1/2	.27	.09	.11
3	.30	.11	.12
3 1/4	.33	.12	.14
4	.39	.13	.17
5	.46	.20	.26
6	.54	.29	.55
7	.66	.40	.68
8	.72	.52	.66

## ASBESTOS CEMENT.

No. 5-A-206. An excellent fire proofing. Used for covering boilers and other steam or hot water surfaces that are exposed. It is an excellent non-conductor. To apply this cement it is mixed with water to the consistency of mortar and applied with a trowel. Put up in bags of 100 lbs. A bag will cover about 25 square feet.

Price, per bag. . . . . \$1.25





# Hot Air Furnace Registers, Pipe and Fittings

Our line of Hot Air Furnace Supplies is most complete and of latest style patterns, embracing all most modern improvements.

Do not allow our low prices to mislead you as to quality, as the usual retail price is about double what we ask, but owing to our enormous volume of trade and buying much lower than others, enables us to save you at least 50 per cent. in price. Besides we guarantee them to be of highest grade material and workmanship, and equal, if not better, than anything on the market.

**Floor Registers** Neat in Design, Strong, Light in Weight, in various sizes and finishes, and with the most simple and durable operation. No parts to get out of order. These registers can also be used to very good advantage for ventilating purposes, etc.

These registers are also often placed in the ceilings of first floor rooms to heat a room above.

Please observe we quote "Register without the border," then quote "The Border for Register," also quote the "Register Face only."

The border is really superfluous, is not essential and is not furnished on our regular complete Hot Air Furnace Equipments except on request. Fire ordinances in large cities require that borders be placed around the registers, but as already stated, the border is of no practical advantage whatever. It is simply a plain cast iron frame which the register fits into, and which thereby increases the size of the register all around to the extent of about 2 to 2½ inches. Registers can be placed in the floor without borders without any difficulty whatever. You will also find the price given separately in the following table for the Register Face Only. This is the same as a register except that the back shut-off arrangement and casing, etc., is left off. It is simply the cast-iron ornamental plate which faces the register.

Size of Opening, Inches.	Black Japanned.			White Japanned.		Electro Plated Copper, Bronze or Brass (your choice)		
	Register Without Border	Register Face Only.	Extra for Floor Border.	Register Without Border.	Register Face Only.	Register Without Border.	Register Face Only.	Floor Border Only.
8x8	\$0.55	\$0.34	\$0.50	\$0.82	\$0.45	\$1.55	\$1.00	\$1.53
8x10	.55	.35	.53	.84	.47	1.62	1.06	1.63
8x12	.79	.42	.63	.96	.71	1.85	1.20	1.85
8x15	1.59	.84	1.09	1.91	1.41	2.94	1.85	2.69
9x9	.84	.46	.68	1.00	.76	1.85	1.35	2.00
9x12	.88	.46	.69	1.07	.61	2.14	1.43	2.10
9x14	1.30	.69	.90	1.56	.88	2.73	1.76	2.50
10x10	.98	.53	.72	1.20	.69	2.25	1.49	2.19
10x12	1.00	.55	.72	1.22	.71	2.30	1.54	2.24
10x14	1.32	.71	.93	1.59	.92	2.75	1.80	2.52
12x12	1.68	.87	1.13	2.00	1.12	3.32	2.12	3.00
12x14	1.81	.90	1.17	2.20	1.17	3.47	2.16	3.08
12x15	1.89	.93	1.21	2.25	1.22	3.57	2.21	3.20
12x24	5.14	1.76	2.31	5.67	2.16	7.81	3.87	5.14
14x20	3.99	1.54	2.00	4.72	2.05	8.61	4.16	5.35



## WALL REGISTER

Cast Iron Wall Registers, Style No. 20, for first or second floor. Made in four sizes. Patent wheel movement; cannot get out of order. Easily operated with hand or foot. Rich and substantial in design. Open style and large capacity.

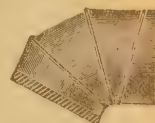
Size, Inch.	Finish.	Price Each.
No. 17-A-500	8x10... Black Japanned...	\$0.66
No. 17-A-501	8x10... Nickel	1.14
No. 17-A-502	8x10... Oxid. Copper	1.14
No. 17-A-503	9x12... Black Japanned...	1.00
No. 17-A-504	9x12... Nickel	1.60
No. 17-A-505	9x12... Oxid. Copper	1.60
No. 17-A-506	10x12... Black Japanned...	1.70
No. 17-A-507	10x12... Nickel	2.34
No. 17-A-508	10x12... Oxid. Copper	2.34
No. 17-A-509	12x14... Black Japanned...	2.20
No. 17-A-510	12x14... Nickel	2.48
No. 17-A-511	12x14... Oxid. Copper	2.48

## HOT AIR PIPE



No. 17-A-155.	Size 6" 8 c
No. 17-A-156.	Size 7" 10 c
No. 17-A-157.	Size 8" 11 c
No. 17-A-158.	Size 9" 11½ c
No. 17-A-159.	Size 10" 12 c
No. 17-A-160.	Size 12" 14 c

## 4 PIECE ADJUSTABLE HOT AIR ELBOWS



No. 17-A-145.	Size 7" 14c
No. 17-A-146.	Size 8" 17c
No. 17-A-147.	Size 9" 19c
No. 17-A-148.	Size 10" 21c
No. 17-A-149.	Size 12" 24c

# Hot Air Furnace Fittings

Our line is complete. Note the double construction of these fittings, with intervening air space; renders fire impossible. Highest grade workmanship and material. Note our wonderfully low prices.



Fig. 14. STACK HEAD for floor register with register box attached as shown.

69c

No. 17-A-100.	Size 4x11.....	69c
No. 17-A-101.	Size 3x12.....	74c
No. 17-A-102.	Size 4x13.....	75c

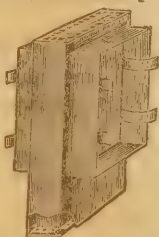


Fig. 12. DOUBLE STACK HEAD, accommodating two registers, as shown. This is used for wall registers only.

59c

No. 17-A-105.	Size 4x11.....	59c
No. 17-A-106.	Size 3x12.....	62c
No. 17-A-107.	Size 4x13.....	62c



Fig. 10. SINGLE STACK HEAD, accommodating one wall register. This is used for wall registers only.

58c

No. 17-A-110.	Size 4x11.....	58c
No. 17-A-111.	Size 3x12.....	62c
No. 17-A-112.	Size 4x13.....	62c

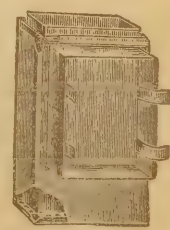


Fig. 15. THROUGH STACK HEAD used for first floor wall register where stack is continued up to second floor.

57c

No. 17-A-120.	Size 4x11.....	57c
No. 17-A-121.	Size 3x12.....	62c
No. 17-A-122.	Size 4x13.....	62c

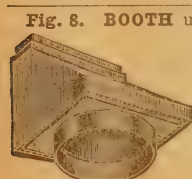


Fig. 8. BOOTH used at bottom of stack to make connection with hot air pipe.

59c

No. 17-A-115.	Size 4x11.....	59c
No. 17-A-116.	Size 3x12.....	62c
No. 17-A-117.	Size 4x13.....	62c

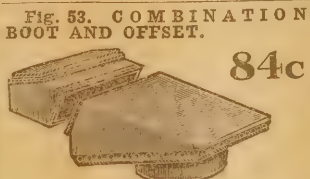


Fig. 53. COMBINATION BOOT AND OFFSET.

84c

No. 17-A-125.	Size 4x11.....	84c
No. 17-A-126.	Size 3x12.....	89c
No. 17-A-127.	Size 4x13.....	89c



Fig. 108. REGISTER BOX used for capping stack for floor register on second floor.

59c

No. 17-A-135.	Size 4x11.....	59c
No. 17-A-136.	Size 3x12.....	74c
No. 17-A-137.	Size 4x13.....	75c

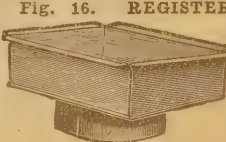


Fig. 16. REGISTER BOX, 4 inches deep. Used for first floor registers.

39c

No.	Register	Size Collar	Price
17-A-140.	8x10	8"	39c
17-A-141.	8x12	8 & 9"	45c
17-A-142.	10x12	9 & 10"	49c
17-A-143.	12x15	10 x 12"	59c

## Fig. 20. STACK ELBOW.



44c

No. 17-A-130.	Size 4x11	44c
No. 17-A-131.	Size 3x12	49c
No. 17-A-132.	Size 4x13	50c



25c per foot

**DOUBLE CONSTRUCTION WALL STACK.** No. 17-A-165 This Stack comes in lengths all the way from 8 feet to 2 inches. The shorter lengths are manufactured to provide for making up the end of the stack, so that no cutting will be necessary. You can build the stack up with short pieces and get it adjusted to the right length in this way.

In ordering this Stack it is well to order the pieces in as long lengths as possible as it comes cheaper per foot in long lengths. A reasonable number of short lengths are required, however, in order to get proper adjustment at the end of the stack. It is better to use these than to attempt to cut the pipe to fit.

Note the following low prices on the various lengths and sizes.

Size Stack.	Length of Piece, 2 in.	4 in.	6 in.	9 in.	12 in.	2 ft.	8 ft.
4x11	.....	\$0.12	.15	.20	.25	.60	2.00
3x12	.....	.17	.20	.25	.30	.60	2.40
4x13	.....	.17	.20	.25	.30	.60	2.40



# Our Line of Hot Air Furnaces

The only objection that can possibly be raised against a steam or hot water heating plant is cost. There are thousands of people who, while fully able to meet the cost of a good hot air furnace, would be compelled to resort to stoves if the expense of a furnace were as great as a steam or hot water heating plant.

## Lowness of Cost

That is the strongest argument that can possibly be urged in favor of a hot air furnace and it certainly has considerable weight. If you can possibly afford it we do very strongly advise you to install a hot water plant, and we would give a steam plant second place, but if your means do not permit either of the above you need not despair: we can furnish you with a furnace which will not cost you much more than a first-class stove and it will be just as simple to connect it up in your building as it is to put up an ordinary stove pipe. The only difference is that it will take a little longer time as there is a little more of it. The only tools you will need are your two hands, a pair of snips and a saw to make a place for the registers in the floor.

In presenting these to our customers, we do so with the utmost confidence in their merits. When we started out to look for a furnace to supply our customers we kept fully in mind the priceless reputation which we had built up in our steam and hot water heating business, and owing to the many unfavorable reports which we have been receiving from time to time from parties who had furnaces installed in their houses, it was with reluctance that we considered risking our reputation by taking on a line of furnaces. However, the inquiries which we have been receiving for furnaces have been increasing so rapidly that we have had to "sit up and take notice."

After investigating the matter we found that there were really several good furnaces on the market, which installed under proper conditions, could be relied upon to give satisfaction. It was then that we fully awakened to the situation. The reports which we had been receiving came only from the people whose furnaces were not satisfactory and who were compelled to install an auxiliary hot water heating arrangement of some kind. The satisfactory furnaces were never reported to us for the simple reason that those people who had satisfactory furnaces had no improvements to make and of course found no reason to correspond with us. We made a deep study of this problem and after sifting the matter to the bottom selected a number of the best furnaces on the market and analyzed them to the very core. The first general condition which became strikingly apparent was the fact that they all had some one or two exceptionally good features which were the very corner-stones of their success.

We recognized drawbacks in all of them, however, and we realized that there was a very broad field for improvement. It became clear to us that it would not be possible to embody all of the best features in any one particular design; a furnace that would most efficiently meet all the conditions on the Pacific Coast, where the weather is uncomfortably cold only for a few hours in the morning and warming up to a tropical temperature during the day, would prove a sad failure if left to its own resources in the more steady climate of the Middle West or the severe blizzards of New England and the entire northern section of our country. On the other hand, a furnace which would stand up to all the requirements under these latter conditions would prove very inefficient and unnecessarily wasteful of fuel if given a try-out in a milder and more changeable climate.

Here, then, is the dividing line. If a furnace is to be designed to give the most efficient service in a mild and changeable climate it must have distinctive features—the radiator should be as thin as it is consistent with durability, so as to present the highest temperature possible to the passing current of air.

## Our Whirlpool Draft Furnace



### Features

1. Burn anything combustible. Hence low cost of fuel.
2. Quick results from firing. Hence absolute independence of sudden temperature changes.
3. Whirling draft. Hence full heat value of fuel entirely obtained.
4. Very high ash pit. Hence grates cannot possibly burn out.

With the foregoing facts fully in mind it is not hard to appreciate the high degree of efficiency which is attained by our "WHIRLPOOL" DRAFT FURNACE shown in the accompanying illustration.

For efficiency and durability under the changeable conditions outlined in the foregoing, and lowness of cost, we back this furnace against anything ever before offered. Requiring heat one day, none the next, only enough to take the chill off the rooms in the early morning, and so on, this furnace shines out above all others. A handful of wood, cobs, newspapers, or anything combustible will take the chill off your rooms in 10 minutes, and, where wanted for a long time, the fire can be kept so low that seemingly no fuel is consumed. However, we do not wish to convey the impression that this furnace is exclusively a wood burner. This is one of the very points on which our designers spent their utmost efforts, and we have produced a furnace which will take the chill off your rooms with a few handfuls of shavings or will take on a heavy hard or soft coal fire to provide for a sudden drop in the mercury with just as much indifference.

**QUICK RESULTS FROM FIRING, AND HIGH POINT OF EFFICIENCY IN A VERY CHANGEABLE CLIMATE.** Those are the points which our engineers have hammered on to

the limit. If these are your climatic conditions you will make no mistake in selecting this furnace. As to their general details, no stone has been left unturned. The large, roomy combustion chamber permits the burning of anything combustible. The large firing door will allow very large stumps or chunks of wood to be thrown into the fire without difficulty. The fire-pot has been molded in two separate parts, which does away with all danger of cracking and allows sufficient leeway for expansion and contraction when the fire is starting up or cooled off suddenly. Also note the deep ash-pit and the large casing for the circulation of the cold air.

We furnish with each furnace a complete set of trimmings, such as a regulator plate with chains and pulleys, etc., shaker, poker, check damper, cement and water-pan.



# OUR ECONOMY FURNACE

To meet the other conditions, where the climate is more steady and severe, we have designed our "ECONOMY" FURNACE shown in the accompanying illustration.

All of the best features in our "WHIRLPOOL" DRAFT FURNACE have been skillfully retained and brought out in this furnace and at the same time those particular points of design which necessarily had to be changed to meet the conditions have been very carefully altered, and the highest point of efficiency in the furnace under those particular conditions is the result. The castings had to be made heavier, and to overcome this and to properly transmit the heat they had to be designed in the most scientific manner possible.

Note the peculiar construction of the radiator body of this furnace. The entire fire-pot is cast in two separate sections and the radiator casting is deeply corrugated and divided in the center so as to allow for all excessive expansion and contraction which will develop when a very hot fire is being carried.

This furnace will burn either hard or soft coal or coke and will hold a long, steady fire for 12 hours at a time.

By thus specializing and separating the particular features which are most desirable to meet the general conditions of climate in our country it can be seen very clearly that we can embody in two furnaces all of the best points of design which render each especially well adapted for the particular requirements which it will have to meet. The question now remains—Which of these furnaces is best adapted to your particular case? You can very easily decide this after carefully reading what has been said, and you can rest assured that in ordering either of these furnaces you will be securing the entire benefit of the long and careful study which our engineers have given to this problem. If you install one of these furnaces in your house we can safely say that you have a furnace which represents the very top-notch of engineering perfection.

The general principles set forth in the foregoing pages have all been recognized by heating engineers for many years past. However, it remained for us to properly analyze this problem and demonstrate the fact that if a furnace is to give the most efficient results it must be designed for the special conditions which it is to work under. We have divided these conditions into two classes, and from our long experience in this heating business we are sure that there is no need for any further division. By specializing on these two particular furnaces and pushing their best features to the limit, at the same time cutting out all undesirable features, we can place these furnaces before our customers with the absolute assurance that they will give perfect satisfaction.



Water  
Coil  
can be  
Inserted  
here.

**HEAVY CASTINGS SUBSTANTIALLY BUILT, NOTHING CHEAP IN ITS CONSTRUCTION.**

Prices below are F.O.B. Our Factory in Mich. Will quote Freight Prepaid or F.O.B. Chicago on Request.

No.	Size of fire-pot	Size of casing	PRICES AND DIMENSIONS.			Price without casing	Price with double-lined casing
			Height	Capacity in cu. feet	Weight		
No. 17-A-13	20-in.	34-in.	48-in.	8,000			
No. 17-A-14	22-in.	40-in.	52-in.	10,000	700 lbs.	\$27.50	\$34.25
No. 17-A-15	24-in.	44-in.	54-in.	14,000	850 lbs.	33.50	40.90
No. 17-A-16	26-in.	48-in.	56-in.	18,000	1,000 lbs.	39.85	46.95
No. 17-A-17	28-in.	50-in.	58-in.	22,000	1,200 lbs.	47.95	56.85
					1,400 lbs.	60.50	69.32



# Our Whirlpool Draft Furnace

Price only  
**\$24.95**

Here is a furnace that you can depend upon. The large steel radiator drum gives instantaneous results in heating, and the special construction of the furnace with the Diving Flue feature and Whirling Draft gives the utmost efficiency out of the fuel. The great feature about this furnace is that it will burn anything combustible you can throw into it—shrubs, cobs, newspapers and rubbish of every kind and description can be burned up to very good advantage in this furnace. It makes a very good furnace for heating stores and places of that kind, where considerable wood and combustible rubbish of every description are always available. This furnace is the ideal furnace for using up this fuel.

Note the large firing door, which will take in very large chunks of wood, and very deep ash pit, which renders it almost impossible to burn out the grates. Every part of this furnace has been given the utmost attention in designing.

The details have been worked out so carefully that the highest point of efficiency is obtained. This furnace has been specially designed for heating residences, stores, etc., and we guarantee absolute satisfaction. Remember, it is not a difficult matter by any means to set this furnace up. It does not require the services of an expert to put one of these furnaces in your home. The matter of setting up this furnace is just as easy as setting up any heating stove on the market. It is apparent from the illustration shown herewith that it is very simple to assemble the various parts of this furnace. It is simply a matter of starting at the base and building one casting after another and bolting each one properly, according to the complete instructions, which we furnish with each furnace.

When you place your order with us for entire equipment, we, of course, fit you out with a complete detailed blue print covering every part of the work, all pipe sizes are fully indicated and the exact location of each register is shown clearly, so that you cannot possibly go wrong. We figure from the sketches which you furnish us and design entire equipment to the best advantage, taking all things fully into consideration, and when our plans are followed the outfit is bound to work. You take no chance whatever in the matter.

Every furnace equipment is backed by our guarantee bond, and we stand behind this guarantee with our entire capital. Note the wonderfully low price at which we are able to offer you this high-grade furnace,



**BURNS ANYTHING COMBUSTIBLE.**

## Prices and Dimensions

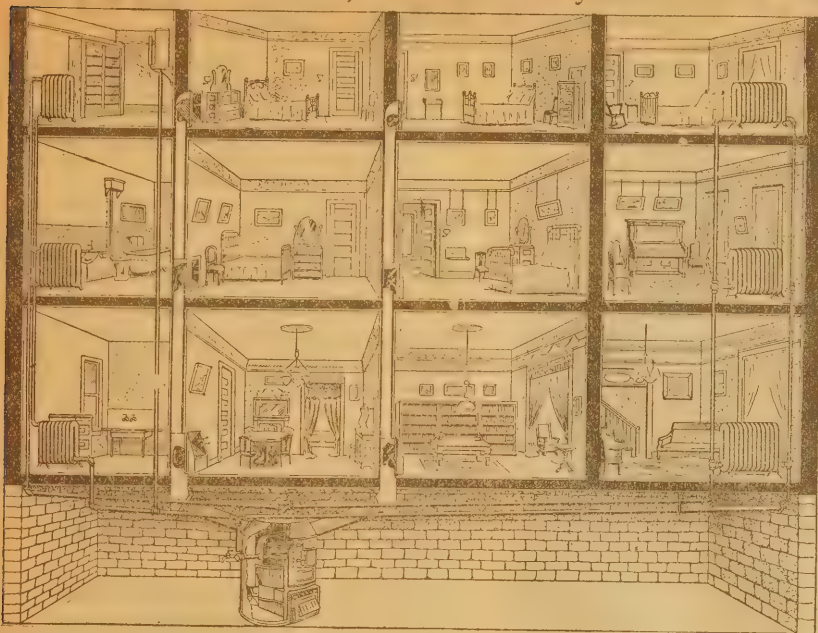
No.	Size of Fire-Pot	Size of Casing	Height	Capacity in Cubic Feet	Shipping Weight Including Casing	Price Without Casing	Price with Double Lined Casing
434	20-in.	34-in.	48-in.	8,000	525 lbs.	\$24.95	\$31.00
438	22-in.	38-in.	50-in.	10,000	750 lbs.	31.00	38.75
442	24-in.	42-in.	52-in.	14,000	825 lbs.	37.00	44.75
446	26-in.	46-in.	54-in.	18,000	970 lbs.	45.00	53.25
448	28-in.	48-in.	56-in.	22,000	1125 lbs.	55.75	63.75
458	30-in.	58-in.	56-in.	30,000	1275 lbs.	67.75	77.50

The above prices are all f. o. b. cars our factory. We will quote you prepaid prices to your station on request.



# Hot Water Appliances for Furnace

If You Have a Furnace, You Undoubtedly Have One or More Rooms Unsatisfactorily Heated.



It is impossible to heat with warm air a room, distant from the furnace, where a long and almost level pipe has to be used. Especially is this true in regard to the second floor chamber, where, in addition to the long pipe in basement, there is usually not sufficient room in partition to admit a wall stack large enough to carry the required volume of air.

A **HOT WATER RADIATOR** in such a room insures a temperature that is pleasant and satisfactory.

A **HOT WATER RADIATOR** in a front hall has a wonderful effect in moderating the temperature of the rooms on each floor opening into the hall.

Many store buildings have offices or apartments above the store, all of which can be heated with **HOT WATER**, and the store floor with **WARM AIR**.

Our **Smith's Patent Hot Water Appliances** enable you to about double the capacity of your furnace.

The illustration on page above shows a combination of **Little Giant** placed in the furnace and heating some of the exposed rooms of a house with hot water. These appliances can be used in various sizes to heat from one to a dozen rooms. If the diameter of the furnace fire pot is not large enough to permit using a single "Giant" big enough to supply the radiation, the appliance can be made up with the **Maltese heater**, using one, two, three or four of these **Maltese heaters**, connecting one above the other. The arms are placed in such a manner that the heat passing up through the cut out surface of one comes in direct contact with the arm of the one above. This makes a very efficient heater, and can be built up to carry as high as six or eight hundred feet of radiation. From the convenience with which these heaters can be built to large size, and from the perfect internal circulation that they have, they are without question the finest appliance of this kind on the market.

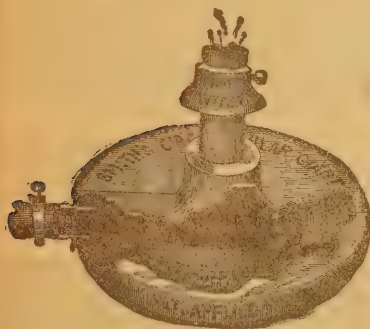
We will be glad to figure up for you the best kind of a heater for your use, one of the right size to heat any number of rooms you may need. We have a blank that will enable you to give us all the information we require very easily, and if you will write us, stating what you need, we will send you one of these

blanks. You can fill it out and we can then make up a complete detailed estimate of all the material you require to install this hot water appliance in connection with your furnace.

## Smith's Circular Giant

Can be placed in any furnace, but especially adapted to one with drum or dome, in which it acts as a deflector, throwing heat to sides of furnace and increasing the capacity very materially.

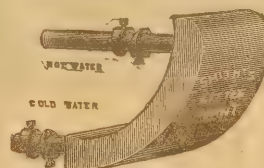
Will heat from one to eight rooms with hot water, and is also effective in heating large tanks. Has no joints; saves fuel and at the same time insures better heat.



Size Number	Diameter, Inches	Size of Pipe	Cap. Sq. Ft. of Rad.	Price
14	14	1 1/2	75	\$ 6.30
16	16	1 1/2	100	8.40
18	18	2	150	11.20
20	20	2	200	14.00
22	22	2 1/2	250	17.50
24	24	3	300	21.00

Two collars with set screws go with each Circular Giant.

## Smith's Little Giant



Is made in four sizes. Has no joints. Can be placed in any furnace. May be used to heat from one to four rooms, or in heating tanks, for which purpose it is unexcelled. Has been tested for years

and has never been known to clog. Should be placed just above fire pot as shown in cut on opposite page. The capacities as given below are conservative, the heater is in many cases doing more than rated to do.

Size No.	Height	Width Inches	Size of Pipe	Bet. Center of Pipe of Rad.	Cap'cy Sq. Ft. of Rad.	Price
0	9	5	1	6 1/2	30	\$4.50
1	9	8	1 1/2	6 1/2	50	5.50
2	10 1/2	10	1 1/2	8 1/2	100	6.00
3	12	12	2	*	150	6.50

\*No. 3 is tapped at top.

Two collars with set screws go with each Little Giant.

## Smith's Cleanable Tank Heater

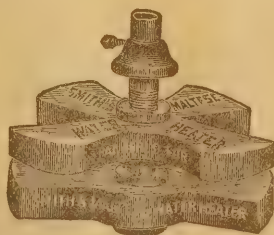
Made in four sizes.



For use in steam or hot water boilers or warm air furnaces. One hole only is necessary about the fire pot. Heater can be disconnected easily, and cleaned of lime by solution or by removing plug it can be easily flushed out if necessary.

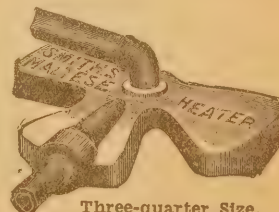
No.	Length	Outside Diam.	Tapped	Capacity Galls.	Price
2	28 inch	2 inch	3/4 inch	30	\$2.50
3	32 "	2 1/2 "	1 "	40	3.25
3 1/2	36 "	2 1/2 "	1 "	40	3.75
4	36 "	3 "	1 1/2 "	60	4.25

One collar, with set screw, with each heater. When one street tree and two unions are furnished, No. 2, 35 cents extra; No. 3, 45 cents extra; No. 4, 60 cents extra.



## Smith's Maltese Heaters

For Use in Any Surface Burning Heater



Diameter in Inches	Tapped	Height	Feet or Radiation	Heat, Gallon Tank	Price, Full Size	Price, 3/4 Size
9	1	2	30	30	\$2.00	
12	1 1/2	2 1/2	50	50	3.00	\$2.10
15	2	3	75	75	4.25	3.50
18	2 1/2	3	100	100	7.00	5.60
21	3	3	150	175	9.80	8.40
24	3	3 1/2	200	225	12.60	11.20
27	3	3 1/2	250	300	15.40	14.00
30	3 1/2	4	300	350	21.00	19.00

No. 12 is also tapped for 1 1/4 pipe. Full size Maltese are tapped top and bottom and can be bushed for any pipe. When two or more are coupled together, the 1/2 size is used as bottom section and is tapped on top and middle arm. Can tap either right or left arm, if so ordered. Two collars are sent with each heater. Add pipe surface to radiation when ordering.



# HOT AIR HEATING EQUIPMENT \$99.<sup>50</sup>

## Complete for This Modern Eight-Room House, Only



We can furnish this house complete with one of our brand new furnace equipments guaranteed large enough to heat the entire building to a comfortable temperature in all conditions of weather, based on Chicago climate, for only \$99.50. This will include registers as follows:

### FIRST FLOOR

Living room, 12'6"x15'6".....1 Floor Register  
Dining Room, 11x14.....1 Floor Register  
Hall, 9x15.....1 Floor Register  
Hall to be furnished with a cold air face of proper size to handle the entire equipment.

### SECOND FLOOR

Chamber, 11 ft. 9 in. x 13 ft. 6 in..1 Wall Register  
Chamber, 6 ft. 6 in. x 9 ft. 3 in..1 Wall Register  
Chamber, 11 ft. x 14 ft.....1 Wall Register  
Chamber, 9 ft. x 10 ft.....1 Wall Register

### FURNACE

The furnace we will furnish on this equipment is our No. 24 Economy Hot Air Furnace, which is positively one of the best on the market at the present time. This furnace will be furnished complete with double lined casing and top bonnet, etc., and is also tapped to receive a water coil so you can heat water for domestic purposes, if you wish to do so.

### THE ENTIRE EQUIPMENT FOR ONLY \$99.50

In addition to the above, we will furnish everything necessary to install this entire Hot Air Heating plant in this house in a first-class, workmanlike manner, including all necessary tin hot air pipe, wall stacks, boots, offsets, register boxes and fittings of every description that will be required to make all connections; everything with the exception of the cold air connecting pipe between the furnace and the cold air face. This you can build yourself out of an ordinary wooden box according to instructions which we furnish.

We also furnish with this outfit the smoke pipe connection between the furnace and the chimney, and dampers for all the hot air pipes.

# No. 26 Economy Furnace and all Necessary \$116.<sup>55</sup>

## Equipment for the Hot Air Heating of this House, Only

For \$116.55 we can fit this house out, complete, with a modern, up-to-date Hot Air Heating Equipment, including a register in every room. This is a rather large size house, 25 ft. wide by 36 ft. deep, and contains 7 rooms; bath-room and two halls.

### REGISTERS

The Registers furnished with this Equipment are brand new Black Japanned Hot Air Registers with shut-off attachments. The registers will be placed in the following rooms:

### FIRST FLOOR

Living room, 14x15'.....1 floor register  
Dining room, 13'6"x14'.....1 floor register  
Kitchen, 9x10'.....1 floor register  
Hall, 8x12'.....1 floor register  
One cold air face, also to be placed in this hall, of proper size to take care of the apparatus.

### SECOND FLOOR

Chamber, 11'6"x12'.....1 wall register  
Chamber, 8'x11'6".....1 wall register  
Chamber, 8x12'.....1 wall register  
Chamber, 14x15'.....1 wall register  
Bathroom, 5'6"x8'.....1 wall register

### FURNACE

The Furnace we include in this equipment is one of our No. 26 Economy Hot Air Furnaces with double lined casing, top bonnet and all necessary attachments, including smoke and pipe outfit, dampers, etc., and chain regulators.

In addition to the above we will furnish everything to complete the entire equipment with the exception of the cold air connecting pipe between the furnace and the cold air face. This you can build yourself out of an ordinary wooden box according to instructions which we furnish.





# Hot Air Heating—General Instructions

## How to Secure Our Estimate

First get our information blank. Read this information blank over very carefully and answer every question as fully as possible. Do not slight any of these questions as it is necessary for us to have all this information in order to properly determine the size furnace you will need, the size pipe in each room, where the registers should be located, etc. If any of the questions in regard to the direction of the winds, the construction of the walls, or concerning the surroundings, etc., are slighted we of course will not be in position to figure accurately the size plant you will require.

In addition to the information called for on this blank it is necessary for us to have a small sketch of the floor plan of your house, something similar to the plans shown on the foregoing pages. This does not need to be drawn to scale; you can sketch it off with a pencil, and as long as you indicate the exact size and location of each outside door and window on this plan, and mark the name of each room, giving us the size of same, this is all we will require. You might also mention any rooms which you do not wish to heat.

When you have this information blank properly prepared you can mail it to us and we will immediately turn the entire matter over to our engineers, who will carefully go into details and figure out the exact size registers you will require in each room, just where it should be located, etc., and we will make you an interesting proposition on the entire outfit by return mail. We, of course, will be glad to have any suggestion which you may wish to offer so that we can give same their due consideration.

## We Make No Charge for This Estimate

This service on the part of our engineers is given absolutely gratis to our customers. We are so positively sure that we will have your order on the basis of the prices which we are in a position to quote you, that we are willing to go to all this trouble for nothing if you are convinced that it is not to your interest to favorably consider our proposition.

After we have our estimate completely prepared we then submit our proposition to you, and after it meets with your entire approval, you send us in your order with a remittance of about \$25.00, to bind the bargain, and we then turn the entire proposition over to our Engineering Department, who again go into the matter and carefully lay out the complete blue print plans of the entire apparatus showing just how all piping will be run, etc. In addition to these blue prints we furnish you all the necessary instructions covering every connection on the entire plant.

It is in the designing of the plant that we spend the greatest time and effort, and all the information you furnish us is carefully considered, so that you can readily see the importance of giving us all the information possible if you wish to have your furnace designed to give the most efficient results.

After these plans are completely prepared we make up the entire bill of material in accordance with these plans and we send the order through so that when the plant reaches you it will correspond exactly with the blue prints which we have by this time mailed you. You will know just where to start, and you can follow our blue prints right through until the very last register is connected up.

We are in a position to furnish you with absolutely everything that will be required to completely equip your home with one of these furnaces, to the very last detail. We have given just as much careful thought and study to the manner of installing this equipment as we have to the furnaces themselves. Every fitting and register, etc., is designed in the most scientific manner possible. The wall pipes which we furnish with our furnace are all so constructed that there is one-inch air space surrounding the entire pipe, and the registers are especially designed to work in harmony with this feature, being also of double construction, so that there is constantly going on a complete circulation of air between the two casings at all times. The air entering at the bottom of stack through holes provided for the purpose, and passing out of the top through similar holes in the floor and wall registers, forms an absolutely fire-proof insulator and does away with any possible danger. This feature can readily be understood by referring to the accompanying illustrations which show a section of the wall casing and two of the numerous forms of registers which are required in the average dwelling.

There is another feature which we have given especial attention in designing this apparatus, and that is

## Simplicity of Assembling

We realized fully that these furnaces, in the majority of cases, would have to be set up by our customers themselves, and we have arranged the sections in such a simple manner that a fourteen-year-old boy could, without any difficulty, set up the entire apparatus with the aid of the very clear instructions which we furnish. The item of labor in installing one of these furnaces is practically not to be considered. You can set the entire plant up in five or six evenings, and the work is so easy that it is mere pastime. Furthermore, when you get it installed you will have a furnace which you can depend upon to give results, and you can rest assured that it will be installed right. You cannot possibly go wrong; the exact location of every register and the exact size of every pipe is carefully determined by our highly skilled engineers who carefully consider all of the conditions as explained in the information blank which you furnish us to get our estimate, and everything is determined with scientific accuracy. If you let the job to your local tinner who has not had the scientific training necessary for designing a furnace of this kind he would probably locate the register in some corner of the room, which might look all right to him but under the conditions which the furnace would be working you would find after you tried to heat this room in certain kinds of weather that it would be absolutely impossible to get the air to circulate in this direction. For this reason it is a very important matter where these registers are located, and the prevailing winds in your locality, the construction of your building, the surroundings, etc., all have to be carefully considered and weighed.

We take this entire responsibility upon ourselves, however, and when you get the furnace and your working drawings, this has all been carefully figured out for you, and all you have to do is to follow our blue prints.

## We Loan You the Tools

We loan you all the necessary tools, of which there will be very few, required to connect up all the piping. You will be at no expense whatever for these tools except for the expense of return freight charge.

Write at once for our Complete Heating Catalogue



# PLUMBING DEPARTMENT

You will find in our Plumbing Department the largest and most varied line of first class material in the country at prices beyond comparison. Give the pages devoted to this section your careful consideration. We save you money.

## From Factory to Consumer.

Never before in the history of the plumbing business has the direct channel between the manufacturer and the consumer been so completely opened up in the plumbing line, as we have opened it, through our original organization selling methods.

Up to the present time it has been practically impossible to break through the stone wall fortifications of the Plumbing Associations and combines and the entire business was practically tied up, so that the ordinary buying public could hardly purchase an article in the plumbing line at any price and the prices that plumbers have been asking and are asking today for their material is almost double or three times what would be sufficient to cover the reasonable cost of manufacture for these goods and still provide for a fair and honest profit. You will therefore not find it hard to understand how it is possible for us to more than cut your plumber's prices in half on exactly the same material which he figures for your job and there is really nothing so very wonderful about it after all.

We sell every item in these pages down to the smallest minute fitting listed, at the very closest margin of profit that it is possible for us to figure and operate our business successfully. We figure prices down to a cent in every case and we give you the benefit of every possible saving. Every one of these selling prices have been determined with a scientific accuracy.

## Our Complete Cost Keeping System.

We have installed in our office one of the most complete Cost Keeping Systems in existence and our customers reap the benefits. We know to a fraction of a cent what we can safely figure on as a reasonable profit on every item, no matter how minute it may be and still successfully carry on our business. With such a positive indicator as this, we are able without risk to keep our prices adjusted to the lowest possible limit.

## Our Sales Are Enormous.

We distribute this material over every state in the Union. We number our customers by the millions and with such an enormous patronage, it is not hard to surmise the enormity of the amount of this material that passes through our hands each year. Owing to this enormous patronage and the extraordinary volume of material which we dispose of, it is not hard to understand how it is possible for us to figure on such a close margin of profit and still operate our business successfully.

## The Producing.

The plumbing material offered in these pages is all manufactured for ourselves under contract. Enormous sales mean enormous contracts and enormous contracts for the manufactured material naturally mean close prices and economical manufacture.

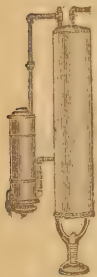
It is an established fact that the greater the quantity, the cheaper an article can be manufactured. We operate our factories throughout the entire year and by guaranteeing our enormous contracts in this way and keeping our factories working up to their maximum economical efficiency, it permits us to offer this material at a price which has never been equaled in this business and our customers secure the benefit of this economical working system to the fullest extent, as is shown by the prices that we are able to quote.

## Our "A" Grade Fixtures Perfect Beyond Question.

We have classified in the following pages three different grades of material. Our strictly "A" grade material, which is guaranteed to be brand new and perfect in every way and free from blemishes of any kind. We will positively guarantee this "A" grade material to stand up in comparison with any material manufactured at the present time. The quality of our "A" grade fixtures is of the **highest**, and we sell it at the **right price**. Our strongest argument for our strictly "A" grade class of plumbing fixtures, as described in the following pages is "Quality" and we will back these fixtures in quality, as before stated, against any fixtures manufactured at the present time in the United States, regardless of who makes them. We offer these "A" grade fixtures to our customers with the absolute guarantee that if on their opening up they do not prove to be up to representation in every way and if they are not exactly as represented to the fullest extent, you have the privilege to return them to us at our expense and we will refund your money and stand all freight charges that have been incurred. In fact, this binding guarantee holds for every item which is listed in this book. We represent our material just as it is and we stand back of the descriptions given in these pages to the limit.



\$24.00



\$10.00



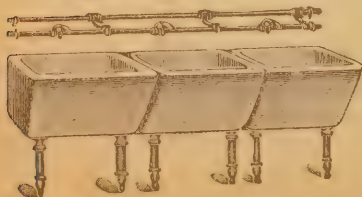
\$0.29



\$12.50



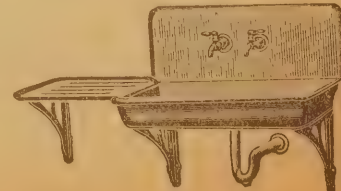
\$2.00



\$7.50 each



\$33.50



\$12.00



\$11.75



\$1.50



\$0.27



\$2.95



\$0.47





\$2.00



\$.45



\$12.00



\$1.50



\$12.00



\$1.70



\$1.75



\$0.57



\$0.23



\$.10



\$0.58

## Our "B" Grade Fixtures Guaranteed as Represented.

In addition to our strictly "A" grade line of material, as above called to your attention, we have what we classify as "Seconds." The fixtures in this class are some which probably left the factory in perfect condition, but in shipping they may have received some slight jar in rubbing against each other or something of that kind and when they reach our plant, after being put through the second rigid inspection, they are sorted out and put aside and classified as class "B" material, or second-grade. These fixtures which are often damaged to such a slight extent that the blemishes are scarcely noticeable, we quote an extraordinary low price and it is possible to secure exceptionally rare bargains in this line.

If you wish to figure as close as possible on your job, this gives you an opportunity to work in a strictly brand new outfit which has never seen any service whatever and which has only some very slight defects, at a very low price and you can make a tremendous saving by using this "B" grade material. We represent it just as it is and we know that you will not be disappointed if you place an order for any of these fixtures in this class.

The castings are guaranteed to be absolutely sound and the "B" grade closets are guaranteed to be suitable for further service and not damaged to such an extent as renders them unfit to hold water or suitable for further service. Any of these fixtures that are damaged to such an extent as this, are immediately relegated to the scrap pile without hesitancy and we would much rather do this any time than send them out on an order and have the customer displeased.

## Our Complete Heating and Plumbing Instruction Book Absolutely Free to You.

We have had especially prepared, for the benefit of our customers, at considerable expense, one of the most complete detailed instruction pamphlets that has ever been issued. We have combined these instructions with our special heating catalogue and this entire book will be cheerfully mailed to you free of charge, postage paid, on request.

## Our Special System of Iron Pipe Connection.

This system makes it possible for anyone to do their own plumbing. We have made arrangements whereby, if you wish, we will have our plumber wipe all joints for you on all of the fixtures right here in our plant before shipment is sent forward. We will provide all of the various fixtures with iron pipe connection on the outlets so that there will be no wiping of joints or soldering of any kind to be done on the entire job and any man who can cut and thread iron pipe will be able to install the entire system by following our very simple instructions.

We can arrange it so that you can use  $1\frac{1}{2}$ " galv. iron pipe from the bath tub;  $1\frac{1}{2}$ " galv. iron pipe from the lavatory and  $1\frac{1}{2}$ " galv. pipe from the kitchen sink, using regular pipe and fittings to make turns, etc., and this simplifies the installation of the plumbing system to a wonderful extent.

## We Loan You Tools.

For the convenience of our customers we have also made arrangements whereby you will be put to absolutely no expense whatever in regard to tools. It is not necessary for you to go to work and buy a brand new set of tools and throw them aside after you have installed the material. For every order for a complete plumbing system amounting to one hundred (\$100.00) dollars or more, we are willing to loan our customers the necessary tools to install their material. When you are through using these tools you can return them to us and we will refund you the money charged you for them, less the return freight charges.



\$0.54



\$0.40



\$.45



\$0.57



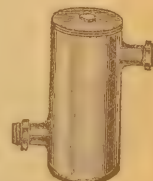
\$0.54



\$0.28



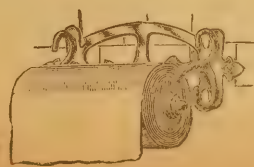
\$0.29



\$2.50



\$1.10



\$0.75



\$12.00



\$.45



\$17.25



# FOR ONLY \$92.50 WE CAN FURNISH COMPLETE The Entire Plumbing System for This House as Shown

This equipment includes one of our No. 5-A-4½. Bath Room Combinations complete with strictly A grade fixtures throughout, 1-30 gallon iron range boiler, 1-K-39 kitchen sink, white porcelain enameled with roll rim, drain board, etc. together with all the necessary roughing in material to complete the entire equipment above the ground line.



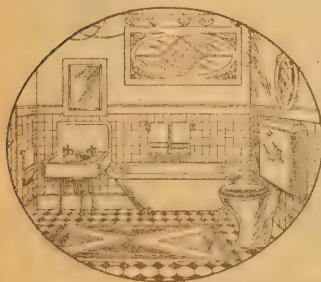
With this equipment, we will furnish complete detailed blue print plans covering the entire installation of the plumbing system, showing how and where each fitting is used and you cannot possibly go wrong in the matter.

We can furnish you the complete plumbing system for this modern building for only \$92.50. Everything guaranteed strictly "A" grade and perfect in every way.

## THE FIXTURES

The bath-room outfit we furnish in this proposition will be our No. 5-A-4½ Complete Bath-room Outfit as described. We will provide the fixtures with iron pipe connection so that you can use galvanized iron waste pipe, so you will be able to get the entire system installed without the services of a plumber.

## PLANS AND INSTRUCTIONS



We furnish complete plans and instructions covering the entire installation of this material and we will cheerfully give you every possible assistance in getting same installed. We loan you all the necessary tools for installing this entire plumbing system, so that you will not be dependent on your plumber in any way. When you are through using these tools, you can return them to us and we will refund the money charged for them, less the return freight charges.

**We Can Furnish Less Expensive Fixtures If Desired**

Note that the fixtures we have selected in this proposition are very high grade and it would be entirely possible for us to cut down the cost of the equipment by figuring in less expensive fixtures, which we are very willing to do if you desire. For instance, we can furnish you with a less expensive bath-room outfit, less expensive kitchen sink, and in this way we could possibly cut down the cost to the extent of twenty to twenty-five dollars. The proposition lined up above, is of course, only a suggestion. It is really a very rare bargain and we have selected what we consider the best offer in bath-room fixtures and kitchen sink, but we are of course, able to furnish you less expensive fixtures if you want us to figure on them.

Send us plans of your house at once. Give us an idea of what bath-room fixtures you want us to furnish you and we will make you a proposition accordingly. We can certainly save you very considerable money and we help you out in the installation of the material in every way we possibly can.

## THE KITCHEN OUTFIT

We will furnish in this proposition will include one of our K-39 roll-rim, cast iron, genuine white porcelain enameled kitchen sink, complete with high back, reversible drain board, brackets and trap and Fuller flanged faucets. This sink is guaranteed "A" grade and perfect. Size of sink 18x30".

We will also furnish you with one of our 30 gallon galvanized range boilers, guaranteed to stand 200 lbs. test, complete with stand, tube and couplings for iron pipe connection.

## THE ROUGHING IN MATERIAL

With this proposition, it is understood that we are to furnish all necessary roughing in material including all necessary 4-inch cast iron soil pipe, caulking lead, oakum, galvanized iron supply and waste pipes; everything of every description to complete the entire equipment in a first-class workmanlike manner. This to include all galvanized pipe to supply hot and cold water to each of the various fixtures including the lavatory and bath tub and kitchen sink, and cold water to the closet. All this roughing in material guaranteed absolutely brand new and perfect. We are not to furnish any water supply system. It is understood that the water is already piped to some convenient point in the building where we can make connection. We are to furnish only the material required from the ground line up. Special low price for this complete plumbing system for this building, only .....

**\$92.50**



**COMPLETE WATER SUPPLY SYSTEM**

PLUMBING PROPOSITION No. 11

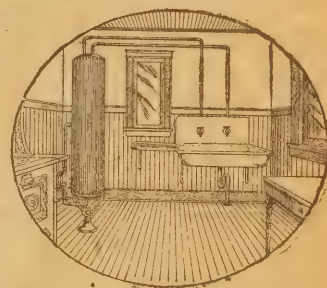
**LAUNDRY  
EQUIP-  
MENT.****BATH  
ROOM  
OUTFIT.****KITCHEN  
OUTFIT**

**IN FACT  
THE  
COMPLETE  
PLUMBING  
AND  
WATER  
SUPPLY  
SYSTEM  
FOR  
THIS  
MODERN  
BUILDING  
ONLY**

**\$174.90**

For only \$174.90 we can furnish the complete plumbing outfit, including Laundry Fixtures, one of our complete, modern Water Works Outfit for this entire building; everything to complete the entire plumbing equipment in connection with these fixtures in this entire building above the ground line.

**The Fixtures.** This proposition is based on furnishing the following fixtures: One No. 5-A-4½ Bathroom Outfit complete; One K-39 Cast-iron White Porcelain Enamel Sink, size 18 x 30, complete with reversible drain-board, brackets, trap and faucets; One 30-gallon galvanized Iron Range Boiler, complete with stand, tube and couplings for iron pipe connection; One set of No. 6 two part stoneware Laundry Tubs, complete with 2 pair of special laundry tray faucets, 1½" short lead "S" trap and all connections complete; One No. 62-W Rex Jewel Laundry Stove with water heating



jacket, etc.; One AP-21 Air Pressure Water Supply System, complete with combination air and water pump and all pipes, valves, water gauges, etc.; everything to complete the entire equipment. All the above material guaranteed absolutely brand new and perfect.

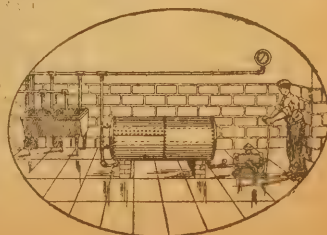
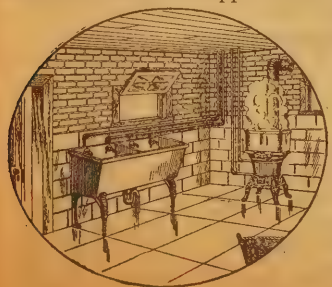
**Roughing-in Material.** It is to be understood that we are to furnish all necessary galvanized pipes, supply pipes, waste pipes, cast-iron soil pipe, caulking lead, oakum, sheet lead roof flashing, lead traps, connections, etc.; everything of every description to complete this entire equipment in this building in a first-class workmanlike manner. This also includes all necessary pipe that will be required in connection with the installation of this modern air pressure system which is included in this proposition. We will also furnish, not to exceed 15 feet of 1½" galvanized iron pipe, to provide for the suction pipe between the pump and the cistern or well. It is to be understood that we are to furnish the entire equipment from the ground line up only. We will furnish a good sanitary system of plumbing, but we will not follow any special city ordinances. If you want the material installed according to special city ordinances, it will be necessary for us to have an exact copy of these ordinances before we can tell you exactly what the roughing-in material will cost. However, this proposition is based, as before stated, on a good sanitary system of plumbing, according to plans which we furnish, and is not based on following any special ordinances.

It is to be understood that we are to loan you all tools and furnish complete blue print plans and instructions covering the entire installation of this equipment. The bath tub, lavatory and kitchen sink, also the laundry tub, to be supplied with hot and cold water, and the closet to be supplied with cold water. All pipes to be of proper size throughout to convey a liberal supply of water to all fixtures, and this to include everything, with the exception of the water front for the kitchen stove. We can furnish you with a cast-iron water front, for an additional sum of \$5.00.

We are to furnish all necessary pipe to complete the entire equipment and to connect the laundry stove in the basement up with the range boiler which is located in the kitchen upstairs, and we are also to provide a tee connection in this pipe so connection can be made with the kitchen stove and either the kitchen stove or laundry stove may be used to heat the water as may be desired.

**Special price on this complete equipment, only.....\$174.90.**

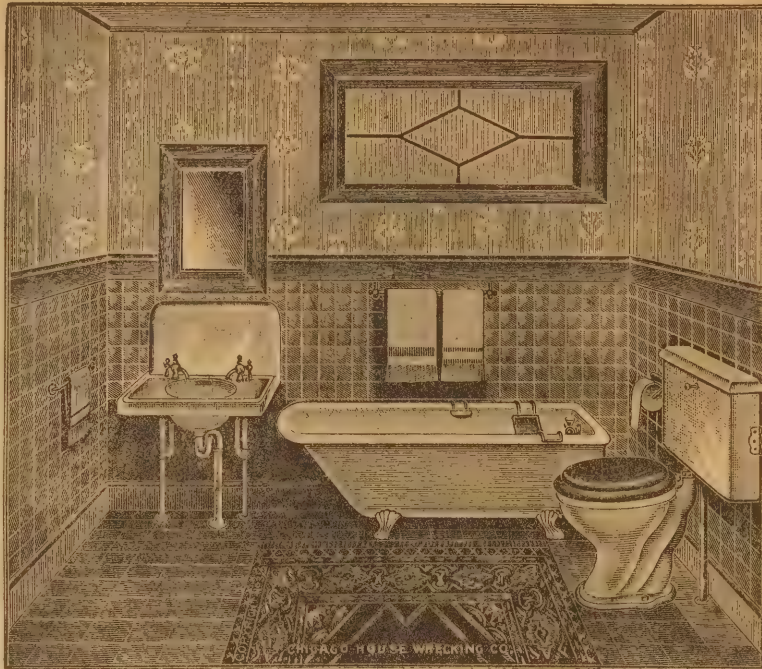
This price is f.o.b. cars Chicago. We will be glad to quote you freight prepaid prices on request. Write at once for our estimate. If the above proposition does not just fill your requirements, we will line up a proposition for you that will. Remember, we can save you money.





# A MOST WONDERFUL OFFER

The special feature of this outfit is the closet. The closet furnished with this outfit positively represents the most modern and up-to-date ideas in closet construction that have been brought out up to the present time. Genuine white porcelain enameled steel tank, double lined with  $\frac{1}{2}$  inch air space between the linings. Sweating of the tank impossible. Highest grade bowl of most approved construction.



BATH ROOM OUT-FIT No. 5-A-41  
ONLY \$37.50

This outfit is certainly one of the greatest bargains ever offered in this line. It is one of the latest combinations. Every fixture guaranteed absolutely "A" grade and perfect in every way. Remember we guarantee satisfaction or your money will be refunded.

**THE BATH TUB** which we furnish with this outfit is a genuine white porcelain enameled cast-iron tub of regular standard weight and dimensions, being 5 feet long, constructed with heavy 3-inch roll rim, and is white porcelain enameled inside and over the rim. It is modern and graceful in shape and is fitted with the latest improved nickel-plated fittings, including nickel-plated Fuller double bath-cock, nickel-plated connected waste and overflow, nickel-plated supply pipes; everything complete above the floor.

This tub is guaranteed strictly "A" grade and perfect, free from defects of any kind. It is fitted with ornamental cast-iron legs, and painted red and green on the outside. It will be a very simple matter to put on a coat of white enamel on the outside of the tub, and if this were done after the tub is set in place, you would have an outfit that would look as well in every way as any of the outfits that regularly sell for \$100 at the present time.

**THE CLOSET:** As we have already brought to your attention, the special feature of this outfit is the closet, and we may well make the claim that this closet outfit which we furnish in this bathroom combination is positively the very top notch of perfection in closet design. We certainly do not know of one outfit on the market at the present time that will surpass this outfit in the way of neat appearance, durability, superior workmanship and general design and construction. We say this regardless of what price may be demanded for such a closet.

This closet is equipped with the latest and most modern pressed steel genuine white porcelain enameled tank with double lining. This tank is constructed in two compartments; the outside compartment which is made of pressed steel and white porcelain enameled all over, both inside and outside. Inside of this, there is another separate compartment which holds the water, and between these two compartments there is one-half inch air space, which makes sweating of the outside of the tank impossible.

Another great feature of this tank is the ball cock. This is of the most substantial construction of the compound lever type. This ball cock will hold tight against the highest water pressure ever experienced. The compound lever arrangement renders leaking absolutely impossible. This lever is also equipped with an adjusting arrangement, whereby the lever can be set at different points so that the ball can be adjusted for different heights of water line in the tank. This is especially desirable if you are operating a tank in connection with a water supply system, where you have to pump the water. You can set this ball cock at the exact point, where you will have just sufficient water to flush the closet and no more. In other words you will not be wasting more water than is absolutely necessary.

This tank is equipped with a pressed steel white enameled cover to fit the tank, and the push button action is the simplest ever devised. The nickel-plated push button is located at the top of the tank in the center, which simplifies the working mechanism to very considerable extent and renders the flush action infallible. These tanks positively cannot get out of order.

The bowl which we furnish with this outfit is our vitreous earthenware syphon wash down bowl, white porcelain glazed. It is cast in one piece and absolutely guaranteed not to crack or craze. This bowl is cast complete with lugs for attaching seat, and the seat furnished with this outfit will be our regular golden Oak or Imitation Mahogany seat complete with cover and nickel-plated post hinges. The outfit is furnished complete with

nickel-plated supply pipe above the floor with iron pipe connection ready for attaching to iron pipe couplings. The flush pipe is connected with the bowl with a slip joint connection and nickel-plated brass elbow, which permits for adjustment in setting up the outfit. This closet is guaranteed strictly "A" grade and perfect.

**THE LAVATORY** which we furnish with this outfit will be our genuine white porcelain enameled cast iron one-piece lavatory complete with deep apron as shown in the illustration with nickel-plated soap drain, compression semi-low down basin cocks nickel-plated with china index handles, nickel-plated "S" trap to floor, nickel-plated supply pipe, chain and rubber stopper. This lavatory is guaranteed strictly "A" grade and perfect in every way.

Size of slab is 18x21 inches. Height of back, 18 inches; size of bowl, 10x14 inches. This lavatory presents an elegant appearance, and one of the most attractive designs we are able to furnish.

**NOTE.** We will furnish the above lavatory with supply pipe and trap to wall if you desire at no additional charge.

Special low price for this complete outfit as above described only \$37.50

You will also note the illustration of nickel-plated trimmings shown in the above cut. We will be pleased to furnish these trimmings as follows:

Nickel-plated Toilet Paper Holder for holding paper on rolls .....	\$0.75
Hard Finish Oak Seat with nickel-plated adjustable clamps, rubber bound for hanging over edge of bath tub .....	\$1.00
A handsome nickel-plated brass Soap Cup, for hanging over the rim of the tub .....	\$1.00
Nickel-plated brass Towel Bar for bath tub, $\frac{1}{2}$ inch in diameter, 30 inches long, with 2 nickel-plated brass posts holding same 3 inches from the wall .....	\$1.00
A second nickel-plated brass bar 24 inches long, like the above, for the lavatory .....	\$0.50
Special price for the above extra nickel-plated trimmings .....	\$4.00
If a 4 $\frac{1}{2}$ -foot tub is wanted, deduct \$1.50; if a 5 $\frac{1}{2}$ -foot tub is wanted, add \$1.50; if a 6-foot tub is wanted, add \$3.00.	

**QUALITY.** Remember we will absolutely guarantee these fixtures to be strictly "A" grade and perfect; free from defects or blemishes of any kind, and should this material open up otherwise than as represented, we stand ready to duplicate the order at once, or you can return shipment to us and we will refund your money in full.

## IRON PIPE CONNECTIONS

We will be glad to furnish this outfit with iron pipe connections if so desired. We will furnish the lavatory with 1 $\frac{1}{2}$ -inch iron pipe connection and also the bath tub we will furnish with 1 $\frac{1}{2}$ -inch iron pipe connection, or 1 $\frac{1}{2}$ -inch brass solder nipple wiped on the outlet of tub, so you can make ordinary iron pipe connection. With this connection wiped on the fixtures, you will have no further difficulty or wiping joints of any kind after the material reaches you, and any man who can cut and thread iron pipe and screw it together will be able to do this work. Iron waste pipe answers the purpose just as well in every way and by following our complete plans you will know just what size pipe to use and how to make the various connections. All you will need will be a set of Stocks and Dies, Pipe Vise and Pipe Wrench, which, of course, we are very glad to loan you free of charge, provided you place an order with us for the complete plumbing outfit. Extra for iron pipe connection as described, \$3.00



# \$46.75 for Our Modern Bathroom Combination No. 5-A-3½

## The Most Popular of All Our Outfits

Every fixture guaranteed strictly "A" grade, perfect and of the highest quality, both in workmanship and material. Here is certainly the best outfit we could offer you at any price.



The price at which we are offering this complete, modern outfit has never before been duplicated in the history of the plumbing business.

This outfit is certainly a rare bargain; every fixture guaranteed as represented or money will be refunded.

THE BATH TUB furnished with this outfit is heavy solid cast-iron, 3-in. roll rim, genuine white porcelain enameled. Tub is 5 ft. in length. It is white porcelain enameled inside and over the roll rim; is graceful in shape and very comfortable tub. This tub presents a massive appearance and is fitted with the latest and most improved solid brass, heavily nickel-plated, and includes Fuller combination bath-cock for hot and cold water, nickel-plated supply pipes, nickel-plated connected waste and overflow, with chain and rubber stopper. The feet are heavy cast-iron of artistic cut and design.

THE CLOSET is one of the latest improved Syphon Jet patterns, made of absolutely non-absorbent vitreous china. The Syphon Jet bowl is the most perfect type closet bowl on the market, holding a very deep water seal, making absolute security against sewer gas. The seat and cover is attached directly to the bowl with nickel-plated post hinges. The tank is of polished oak and lined with heavy copper. It has the best flushing device and nickel-plated push button action so far devised.

This tank is arranged with a refilling arrangement, so that even though the bowl syphons out and should lose its water seal in flushing, when the tank is refilled a portion of the water will overflow and fill up the bowl to the full level of the water seal again.

The tank has nickel-plated supply pipe with floor flanges and nickel-plated 2 in. flush connection, closet floor screws and tank fastener.

THE LAVATORY consists of one solid cast-iron, genuine white porcelain enameled lavatory, all cast in one piece. The basin is oval 11x15 in. size with patent overflow. It is fitted with heavy brackets, nickel-plated air chamber supply pipes and nickel-plated Fuller basin cocks, nickel-plated "S" trap with waste to the floor, nickel-plated floor flanges, nickel-plated chain and rubber stopper.

NOTE. We will furnish the lavatory supply pipes and traps to wall when so specified without any additional charge.

Special price for this complete 3-piece Bath-room Combination, all guaranteed "A" grade and perfect, as above described, \$46.75. You will also note on the illustrations various nickel-plated trimmings which we quote as follows:

Nickel-plated Toilet Paper Holder, for holding paper on rolls.....\$0.75  
Hard finish Oak Seat with nickel-plated adjustable clamps, rubber bound for hanging over edge of bath-tub.....1.00  
A handsome nickel-plated Brass Soap Cup, for hanging over the rim of tub.....1.00

Nickel-plated brass Towel Bar for bath-tub, ½ in. in diameter, 30 in. long with 2 nickel-plated brass posts, holding same 3 in. from the wall 1.00  
A second nickel-plated brass Bar, 24 in. long, like the above, for the lavatory......90

Special price for the above extra nickel-plated trimmings.....4.00  
Making the complete outfit as shown in illustration and as listed above \$52.50

If a 4½ ft. tub is wanted, deduct \$1.50.

If a 5½ ft. tub is wanted, add \$1.50.

If a 6 ft. tub is wanted, add \$3.00.

Our special system of iron pipe connections, makes it as simple as A B C. The time has come at last when plumbers cannot have every

Extra for Iron Pipe Connection, \$3.00.

thing their own way and dictate their own terms to anyone in the market for a plumbing system. We have come to the rescue.

Our modern system of iron pipe connections on our plumbing outfits, renders the services of a plumber absolutely unnecessary. Any ordinary mechanic who can cut and thread iron pipe and screw it together, will be able to install any of our fixtures without the least difficulty. All of the plumbing and lead work, wiping of joints, etc., being done right here at our plant before the fixtures are shipped, does away with all such work on the job, and for a very slight additional charge, we are able to furnish any fixtures in our catalog with iron pipe connections, so that the installation of the fixtures is a very simple matter indeed.

We protect you on safe delivery. Do not let the distance between us have any weight in your decision in the matter of where you place your order. You can rest assured that even though we are hundreds of miles away from you that your order will have exactly the same attention as if you were right here in our plant overseeing every move we make in the assembling of your material. Furthermore, we absolutely protect you on safe delivery, and you are taking absolutely no chances whatever in the matter of shipment. If this material does not arrive at your station in perfectly sound condition and up to representation in every way, or if the crating is broken, due to rough handling in shipment and carelessness on the part of the Railroad Company, all we ask is that you have the freight agent make proper notation on the freight expense bill, acknowledging the fact that the goods were damaged, to whatever extent it may be, and then mail us this expense bill, and immediately on its receipt we will duplicate the order at once and have the defective or damaged material returned to Chicago, and we will take the matter of claim up with the Railroad Company, and relieve you of all uneasiness or responsibility in the matter.

We fight these claims for our customers and take this entirely upon ourselves. If your shipment does not reach you in absolutely perfect condition, it is not up to you by any means—it is up to us, and we protect you to the limit. All responsibility is taken off your shoulders in matters of this kind. Therefore you can readily see that even though you are thousands of miles away from us, you will be able to do business just as conveniently as if we were located in your own town and you could walk right into our office.

We are very sorry that it is not possible for all of our customers to visit us and go through our plant, as we are only too glad to show such of them that have time to make the trip, and we know that if you could once pay us a visit here at our plant in Chicago, your continued patronage would be assured.

We realize that it is a pretty hard matter to work up sufficient confidence to place your order so far away from home and expect it to have the same attention as it would have if you placed it in your home town, but all we ask is a trial order, and we know that if you once favor us with a trial order, the mere distance between us will cut very little figure thereafter, when you once see what a great saving we can make you on this material. We know that you will become one of our regular customers and our continued pleasant business relations will be certain. All we ask is a chance.

Get our Heating Catalogue at once — It is a valuable book.



# \$43.50 Buys our Complete Combination 3-Piece No. 5-A-2

High grade material and workmanship throughout. This outfit cannot be duplicated any place in the country at this price.

The BATH-TUB is a very graceful, genuine cast-iron, white porcelain enameled tub, with 3 in. roll rim; is made in one-piece, being white porcelain on the inside and over the roll rim, and is finished on the outside with a coat of iron filler paint.

The fittings are solid brass heavily nickel-plated, consisting of nickel-plated double Fuller bath-cock for hot and cold water, nickel-plated connected waste and overflow, nickel-plated supply pipes, chain and rubber stopper, floor flanges, etc. The tub is 5 ft. in length, and 30 in. in width from edge to edge of rim.

THE LAVATORY is solid cast-iron, countersunk rolled edge, white porcelain lavatory; size of slab 18x24 in.; has 11x15 in. patent overflow bowl with 8 in. high back; it is cast seamless in one piece; is fitted with fancy brackets, complete with nickel-plated Fuller basin cocks for hot and cold water, nickel-plated "S" trap from basin to floor, nickel-plated supply pipes to floor, nickel-plated overflow strainer, chain and rubber stopper. This lavatory is absolutely "A" grade, brand new and perfect in every way and free from defects of any kind.

THE CLOSET for this outfit is furnished with a vitreous porcelain wash out bowl; with hardwood seat attached directly to the bowl with nickel-plated bolt attachment. The tank is copper lined and furnished in either natural, golden or antique oak, or imitation finish, (in ordering state your preference) and is fitted with the latest appliances, and complete in every way, including chain and pull; is furnished with nickel-plated flush and supply pipes, the flush pipe being connected to bowl with patent rubber elbow. The outfit includes floor screws, floor flanges, etc.

QUALITY. The outfit consists of all brand new material. The tub is class "B." The defects are very slight, scarcely noticeable, and do not mar the appearance or usefulness of tub.

Price as above described \$43.50.

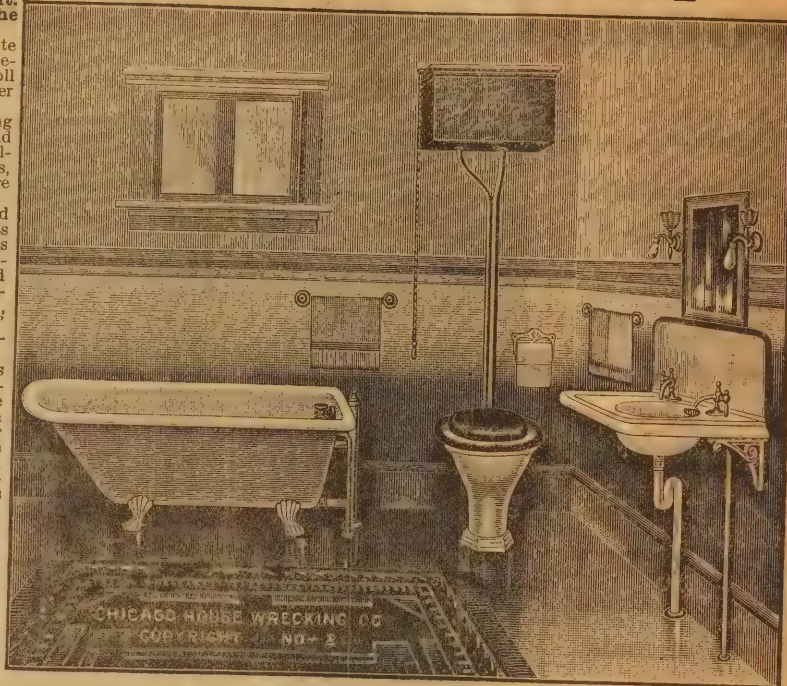
NOTE. We furnish the outfit with closet bowl changed to Syphon washout bowl for an additional price of \$1.00.

We can also furnish this lavatory with fittings to the wall instead of floor for the same price. We will furnish lavatory for corner of room instead of straight wall as described for the same price.

If 4 or 4½ ft. tub is wanted deduct \$1.50. If 5½ ft. tub is wanted add \$1.50. If 6 ft. tub is wanted add \$3.00.

We can furnish Bath-tub with combined nickel-plated brass waste and overflow and bath trap to go above the floor at an additional price of \$2.50.

We will also be pleased to furnish this outfit complete with iron pipe thread connections soldered on the outlets, so direct connection can be made to iron pipe threads, for an additional sum of \$1.50.



# \$54.50 Buys this Complete High Grade, Modern, Up-to-date 3-piece Bath-room Outfit No. 5-A-3

This outfit represents absolute perfection. We could not positively give you higher quality fixtures if we tried. The fixtures furnished with this outfit are absolutely perfect and strictly "A" grade in every way.

THE BATH-TUB is solid cast-iron, heavy 3 in. roll rim, genuine white porcelain enamel, 5 ft. in length, 30 in. wide over all from edge to edge of rim; is graceful in shape and is a very comfortable tub. It is fitted with double nickel-plated combination bath-cock for hot and cold water, nickel-plated supply pipes, standing "Roman" waste, nickel-plated with latest appliances. The feet are artistic in design, and the tub presents an elegant appearance.

THE CLOSET in this outfit is furnished with our latest improved Syphon Washdown Bowl, made of vitreous porcelain ware. It is furnished with hardwood seat and cover attached directly to bowl with nickel-plated clamps and fittings. The tank is of the low down pattern, round-cornered, copper-lined, with best grade ball cock and improved push button action flushing device, with nickel-plated supply pipe and flush connection, floor flange and rubber gasket.

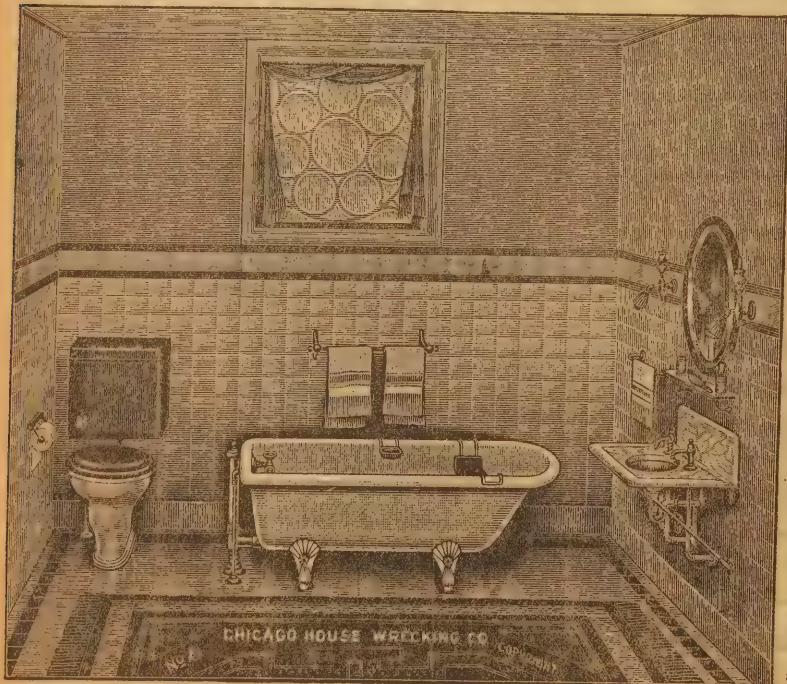
THE LAVATORY is a large massive appearing countersunk, genuine pink Italian marble, with solid porcelain 14x17 oval basin, complete with nickel-plated brass rope pattern brackets, nickel-plated Fuller basin cocks, nickel-plated brass supply pipes with air chamber, nickel-plated brass trap, nickel-plated chain and rubber stopper, complete with clamps, screws and nickel-plated flanges.

Special price for this complete 3-piece Fixture, all material to be of the highest grade and perfect in every way \$54.50.

You will also note in this illustration various trimmings can be furnished with this outfit. We are pleased to quote them as follows:

- Nickel-plated Toilet Paper Holder for holding paper on rolls. Price.....\$0.75
- Hard finish Oak seat with nickel-plated adjustable clamps, rubber bound for hanging over edge of bath tub. Price.....1.00
- A handsome nickel-plated brass Soap Cup for hanging over the rim of the bath tub. Price.....1.00
- Nickel-plated brass Towel Bar for Bath Tub, ½ in. diameter, 30 in. long, with 2 nickel-plated brass posts, holding same 3 in. from the wall. Price.....1.00
- A second nickel-plated brass bar, 24 in. long, like the above, for the lavatory. Price......90
- Plate Glass Shelf, 24x5 in., with nickel-plate brass brackets. Price.....4.00

Special Price for everything listed \$59.50. If 4 or 4½ ft. tub is wanted, deduct \$1.50. If 5½ ft. tub is wanted, add \$1.50. If 6 ft. tub is wanted, add \$3.00. Remember the above outfit represents absolutely the highest grade of fixtures that it is possible for us to turn out. We will also be pleased to furnish the above fixtures with iron pipe connections, so that you can connect same up with ordinary iron pipe threads for an additional charge of \$1.50.





**\$24.75**Buys Our  
Complete  
Only 3-Piece**Bath-room Combination  
No. 5-A-O**

**THE BATH TUB** is one of our brand new, strictly "A1" grade, steel enameled bath tubs complete with connected waste and overflow pipes, combination double bath-cock, ornamental cast iron combination frame and legs and highly finished hardwood rim. It is 5 ft. long, and is guaranteed to be practical, serviceable and durable in every way. The entire inside is carefully coated by a special enameling process which gives the tub a very durable finish, and it is painted with blue enamel on the outside. It is very neat appearing, and we guarantee satisfaction.

**THE LAVATORY** which we furnish with this outfit is one solid cast iron piece, white porcelain enameled. The enameling is genuine white porcelain, and the lavatory is furnished complete with 2 compression faucets, nickel-plated adjustable "S" trap to floor and one pair of cast iron brackets.

**THE CLOSET** which we furnish with this outfit will be our sanitary, vitreous bowl high tank top supply outfit, furnished complete with nickel-plated flush pipe, supply pipe connection, nickel-plated chain and pull, and polished hardwood oak seat. The tank is copper lined, fitted with ball cock, and float. The mechanism is durable and guaranteed high grade in every way.

**QUALITY.** The material in this outfit is all absolutely brand new. The Bath-tub is strictly "A" grade and perfect, having no defects of any kind; every fitting in the outfit is brand new and perfect in every way. All nickel-plated fittings furnished with this outfit are all absolutely brand new and perfect. The closet bowl and the lavatory will have some very slight defects—they are known as class "B" fixtures, but the defects are so slight that they will not impair the usefulness or appearance of the outfit in the least.

**Special price for this complete 3-piece outfit as above described \$24.75.**

**SPECIAL NOTE.** We can furnish the above outfit with iron pipe connections soldered on the outlets complete ready for connection to iron pipe for an additional sum of \$1.50.

We will furnish this tub in 4½ ft. length at a reduction of \$0.35.

If 5½ ft. tub is wanted add \$0.60.

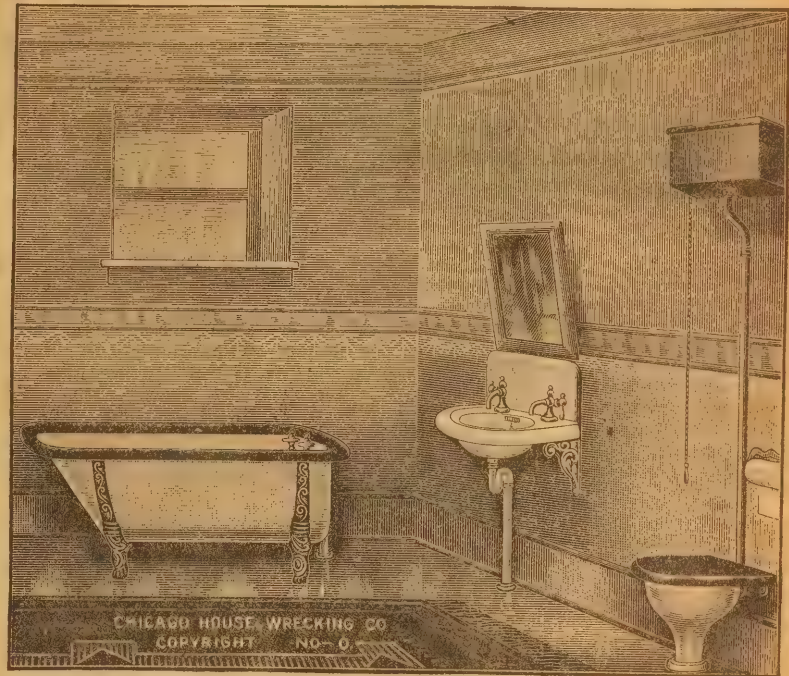
If 6 ft. tub is wanted add \$1.60.

We furnish nickel-plated supply pipe for this bath-tub for an additional price of \$1.50.

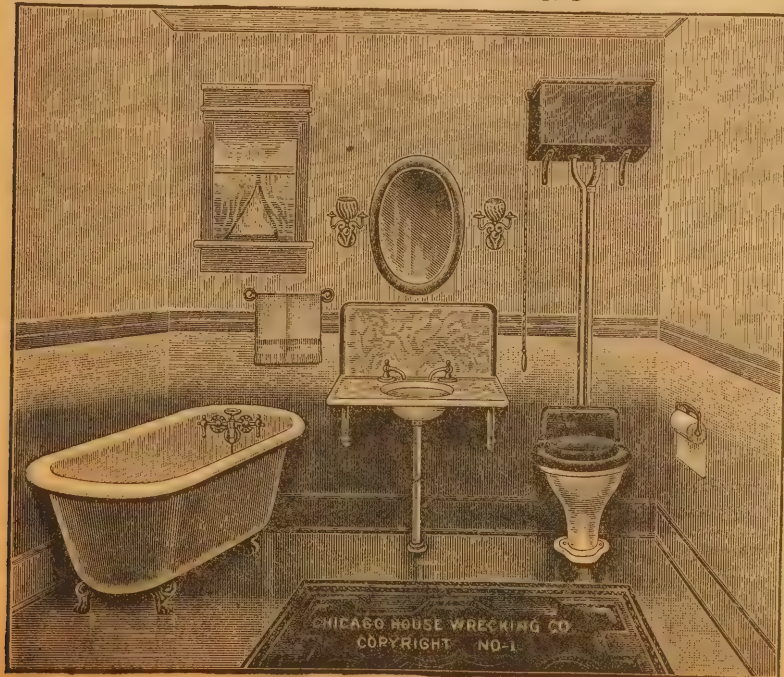
We will furnish the lavatory with trap to wall instead of floor for the same price.

We will furnish nickel-plated supply pipe for lavatory for an additional price of \$1.50.

**Modern, sanitary and up-to-date in every way.** This outfit is one of our greatest sellers, and as far as the practical results that you will get from this outfit are concerned, it will hold its own with any of the higher class outfits on the market at the present time. Every fixture is guaranteed as represented. Fixtures can be furnished with iron pipe connection if desired at a small additional cost, so that you can do your own plumbing.

**Our Complete Outfit  
No. 5-A-1**With Solid Cast-Iron  
Bath-tub, Genuine White  
Porcelain Enameled, Only**\$37.50**

**This is the most durable and high grade complete 3-piece bath-room outfit ever offered at such a price. Note the description of the fittings given in detail.**



The bath-tub is a regular cast-iron heavy 3 in. roll rim, genuine white porcelain enameled tub made in one solid piece, being enameled inside and over the roll rim. It is finished on the outside with a single coat of iron filler paint.

The fittings furnished with this tub are heavy brass nickel-plated, consisting of nickel-plated waste plug and overflow, nickel-plated Fuller double bath-cock for hot and cold water, nickel-plated chain and rubber stopper, nickel-plated floor flanges, etc. The tub is 4½ ft. long and is 30 in. wide over all from edge to edge of the rim.

**THE CLOSET** is furnished with a vitreous porcelain wash out closet bowl and hardwood seat for attachment against the wall. The tank is copper lined and finished in either Natural, Golden or Antique Oak or Imitation Mahogany (in ordering state your preference.) This outfit is fitted with the latest appliances and is complete in every way, including chain and pull, nickel-plated flush and supply pipe; the flush pipe being connected to the bowl with a patent rubber elbow, which gives lee way for adjustment and facilitates in setting up the closet. This outfit is fitted complete with nickel-plated floor screws, floor flanges, etc., and is complete in every way.

**THE LAVATORY** we furnish with this outfit will be of genuine pink Tennessee marble for straight wall, complete with back, slab and patent overflow bowl; nickel-plated compression basin cocks, nickel-plated "S" trap from basin to floor, nickel-plated twisted brackets, floor flanges, basin clamps, chain and rubber stopper.

**QUALITY.** The outfit consists of all new material. The tub is class "B." The defects are very slight, scarcely noticeable and do not mar the usefulness or appearance of the tub.

**Special price for this 3-piece combination as above described \$37.50.**

**NOTE.** If 4 ft. tub is wanted same price.

If 5 ft. tub is wanted add \$1.50.

If 5½ ft. tub is wanted add \$3.00.

The bath tub can be furnished with nickel-plated connected waste and overflow instead of the common waste and overflow at an additional charge of \$1.25.

For the convenience of our customers' in installing the material, we will also be glad to furnish all fixtures, so they can connect directly to iron pipe threads, for an additional charge of \$1.50.

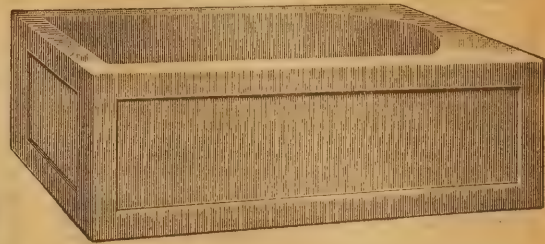


# Sacrifice Sale Solid Porcelain Bath Tubs

## \$15.00 Each Without Fittings



YOUR  
CHOICE  
OF  
THESE  
PATTERNS



**Only a Limited Number Left. Order at Once.**

These fixtures are the same as are regularly sold for from \$100.00 to \$125.00 each by regular plumbers. However, they are all slightly defective, more or less. We have a limited number on hand, about twenty (20) of each style, as illustrated, and are offering them at this wonderfully low price, simply to move this stock. We prefer to sell them as they are, rather than fit them up with the special fittings required, and for this reason, we have decided to put them out at \$15.00 each, without the fittings. If we wanted to take the time to fit these tubs up with all special fittings complete, we could sell them for from forty to fifty dollars each. However, we prefer to move them quick. Order one of these tubs. You can fit it up yourself, and when you are through, you will have a tub that is easily worth from seventy-five to one hundred dollars. The slight defects are scarcely noticeable in most cases and can easily be trimmed up with a little white enamel, so that after you get the tubs set in place, it cannot be distinguished from any tub that you would pay one hundred to one hundred and twenty-five dollars for to any plumber.

These tubs will not remain long in our possession at this reduced price. If you can find a place to use an elaborate and massive looking tub at a price that is even lower than you could purchase an ordinary common cast iron tub for, here is your opportunity. For an investment of \$15.00 you can have one of these modern tubs. It will certainly improve the appearance of your bath room 100 per cent. These tubs can be very neatly enameled on the outside, and by a little careful finishing, no one will ever know the difference as to quality.

It is understood, of course, that we do not guarantee these tubs in quality. We guarantee them to be strictly serviceable in every way, but they are all very slightly defective.

The square pattern tub, shown in the cut on the right hand side, is finished on one side only. It is intended to set in a niche in the wall. Both ends and one side are not finished.

The tub, shown in the cut on the left hand side, is a regular pattern roll-rim tub, designed to stand out in the room. Has heavy porcelain legs, as shown.



We take  
a personal  
interest in  
our cus-  
tomers.

Genuine  
Porcelain  
Pedestal  
Lavatories,  
Complete with  
trimmings

**\$25.00**

**No. 5-A-664.** Pedestal style, oval style, oval top, 24x33" with 14 x17" flat back oval basin. These lavatories are moulded in two pieces. The oval slab containing the basin and a separate pedestal. They are white glazed inside and outside. The pedestal is white glazed all over. The pedestal is of the plain Ionic design.

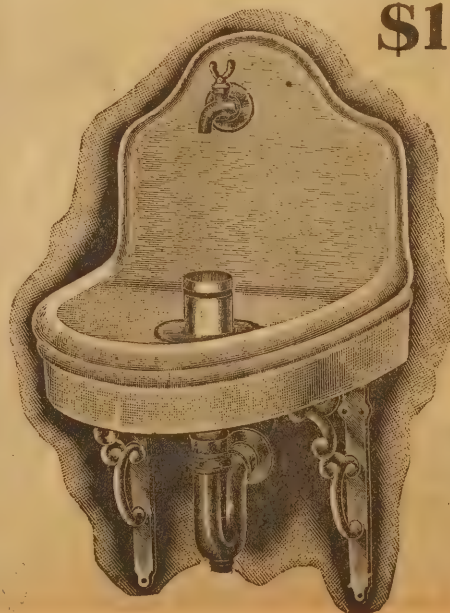
We furnish this lavatory complete with two compression nickel plated semi-low-down basin cocks with china index handle, marked respectively hot and cold with ideal lifting waste. We furnish the outfit complete with nickel-plated air chamber supply pipes to wall and nickel-plated vented flask trap also to wall.

In quality this lavatory is "B" grade, has some very slight defects. We have a lot of about 50 of these left and at the prices which we are offering them, they certainly will not remain long in our possession. Some of them are very slightly damaged. We can pick out an exceptionally good one for you, if you place your order early. You can write us if interested and we will submit you complete detailed description. If you are satisfied with this description, you can order and we will guarantee satisfaction. We will sacrifice these lavatories while they last at the exceptionally low price of.....**\$25.00.** Now is the time to order.

If you intend building a home we earnestly request you to read our "Free Plan" offer, and the "Material Specification" as outlined in the Lumber Section of this book.

**Solid Porcelain Drinking Fountain.**

**\$15.00**



**No. 5-A-671.** Solid porcelain one-piece drinking fountain, made to set against wall. Heavy and massive in appearance, equipped with ornamental brackets, as shown, and with nickel-plated self-closing faucet, nickel-plated outlet fitting and nickel-plated 1 1/4" half "S" trap with waste to wall.

In quality this drinking fountain is class "B"; some very slight defect.

Price, complete, as described, while they last only ...

**\$15.00**



# Only \$98.00 for the Complete Plumbing System for This Entire Building—Modern Fixtures—Everything Brand New “A” Grade, and Perfect in Every Way

## Plumbing Proposition No. 10.

This proposition covers all ordinary requirements for the average sized residence.

We can duplicate this offer for practically any house plan at this wonderfully low price.



Remember this proposition includes all necessary material to complete the entire equipment above ground line with complete plans and instructions for installing.

For \$97.50 we can completely equip this modern, up-to-date dwelling-house with the entire plumbing system, including everything from the ground line up. This you understand does not include the mere fixtures, but includes all necessary pipe, fittings, lead traps, connections, etc.; everything to complete the entire equipment, and complete working plans for installing.

### The Fixtures

We show on this page an illustration of the various fixtures which we furnish in this proposition. The Bath-room Outfit will be our No. 5-A-4 Bath-room Outfit fully described on the preceding page. This is the most modern and up-to-date outfit that we could possibly furnish you.

The kitchen outfit includes one of our K-39 roll rim kitchen sinks, with enameled iron reversible drainboards, roll rim back, faucets, trap, brackets, etc., complete.

We will also furnish you with one of our 30-gallon galvanized range boilers, complete with stand, tube and couplings for iron pipe, and the outfit will be complete in every way, with the exception of the water front or water-heating arrangement which you will need in your kitchen stove. We can furnish you with a cast-iron water front for any stove manufactured, for an additional cost of \$5.00. If you wish us to include a water front with your order, be sure and give us the manufacturer's name, etc., of your stove when you send your order in.

### Quality

Every fixture in the entire equipment will be guaranteed strictly “A” grade and perfect in every way.

### Roughing-in Material

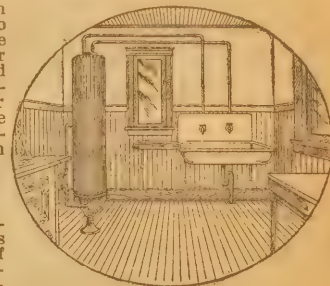
It is to be understood that we are to furnish everything from the ground line up, including all necessary 4 in. standard soil pipe, offsets, soil pipe tees, caulking lead, oakum, fittings, etc., including sufficient 2 in. soil pipe stack to make a separate vent pipe for the kitchen sink. In this particular house design the kitchen sink is not located directly under the bath-room, and it is necessary for us to figure on a separate 2 in. soil pipe stack for this sink, which is fully included in the above. All this roughing-in material to be

absolutely brand new and perfect in every way. In this proposition we are planning on a good sanitary job of drainage, but we do not propose to follow any special city ordinances in the matter. We will carry a 2" vent pipe from the ground line to the roof of the building which will provide ample ventilation, and we are not figuring on re-venting any of the fixtures. All connections will be made directly into the soil pipe stacks.

It is also assumed by us that you already have the water connection under pressure. If you have no means of water supply, we will be glad to quote you on a complete air pressure system, or an elevated tank system, whichever you desire. We can furnish you with either of these systems and we guarantee satisfaction. Note the complete description of these systems as given elsewhere in this book.

### Working Plans

We will furnish you with complete working plans and instructions covering the entire installation of this material, and we will cheerfully give you every possible assistance in getting it installed.



## SPECIAL OFFER

### We Loan You Tools

On all orders placed with us for a complete outfit such as this, we have decided to loan our customers all necessary tools for installing. We are to charge you in full for these tools, and the full amount of the charge to be refunded to you upon the tools being returned to us in reasonably good condition; that is, not broken or damaged beyond the due allowance for ordinary wear.

Special price for this complete plumbing system as above described for this entire building, only \$97.50.

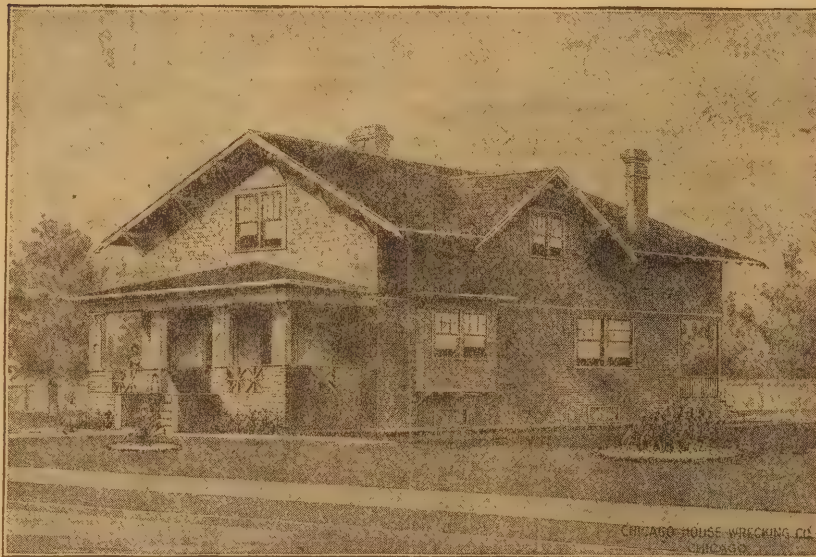
Your house may differ slightly from this. Send us a rough sketch of your bath room and your kitchen, including the entire first floor and the entire second floor at once. Mark where you want the fixtures located and we will make you a complete proposition and we will guarantee to save you money.



# Complete Plumbing Equipment for This Modern Residence

## Plumbing Proposition No. 14

This proposition covers practically every modern convenience in the way of a plumbing equipment for your home.



Remember we furnish you complete blue print plans and instructions for installing all of this material.

## Including 2-part Laundry Tub, Complete Modern Bathroom Outfit, Kitchen Outfit Complete and One Rex Jewel Laundry Stove with all Connections, Only \$121.90

For only \$121.90 we can furnish everything to complete the entire equipment of the plumbing installation of this modern building, including Laundry Output, complete Bath Room Outfit, complete Kitchen Outfit, everything strictly "A" grade and perfect in every way. This includes complete working drawings for installing and also the use of all necessary tools.

### THE FIXTURES

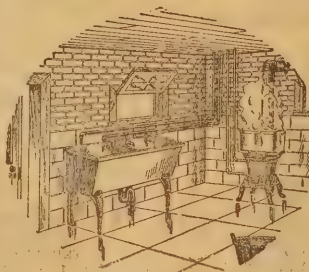
that we will furnish in this proposition will be as follows: One No. 5A-4½ Bath Room Outfit complete as listed and described, one K 39 Kitchen Sink, size 18x30, genuine white porcelain enamel with roll rim and reversible drain-board, faucets, trap, brackets, etc., one 30 gallon, brand new galvanized range boiler complete with stand, tube and couplings for iron pipe, one set of No. 6-2 part Economy Stoneware Laundry Tubs, complete with 2 pair of special Fuller laundry tray faucets, Short Lead "S" Trap to floor and all connections complete, one No. 62 W Rex Jewel Laundry Stove complete. All the above fixtures guaranteed strictly "A" grade and perfect in every way.

### ROUGHING-IN MATERIAL

In addition to the above, this proposition includes all necessary brand new piping, including galvanized iron supply pipes, galvanized iron waste pipes, soil pipe, caulking lead, oakum, sheet lead roof flashing, lead traps: everything of every description to complete the entire equipment from the ground line up, assuming that the water is already piped to some convenient point in the building where connections can be made. This includes all necessary galvanized iron supply



pipes: in fact everything of every description to complete all connections; hot and cold water to be supplied to each of the two laundry tubs, kitchen sink, bath tub and lavatory and cold water to be supplied to the closet;



proper size pipe to be used throughout, and we to guarantee the system to work perfectly and give entire satisfaction.

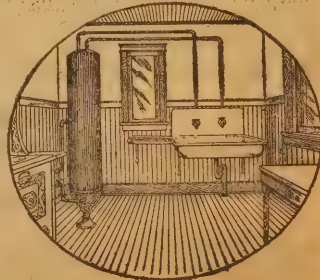
### WORKING PLANS

We will furnish in this proposition complete blue print plans and instructions covering the entire installation of every part of the material, so that mistakes are impossible. This also includes the use of all necessary tools for installing the entire equipment.

In this proposition, we are planning on locating the laundry stove in the laundry in the basement at some convenient place. This laundry tub and laundry stove to be connected with a tee connection to the kitchen boiler which will be located behind the kitchen stove in the kitchen on the first floor. It will not be necessary to use this laundry stove exclusively to heat the water as we can provide for heater connection to the kitchen stove so that either one, or both can be used. We will furnish a complete diagram of this so you will understand how to make these

connections. All hot water connections will be taken out of the top of the range boiler, so when the water in this tank becomes heated and any faucet on the hot water line is open, the hot water can be immediately obtained.

If you have any special preference in regard to fixtures, other than the selection made you above, drop us a line at once and give us some sort of an idea of your requirements and we will be glad to quote you fully. The above proposition is, of course, only a suggestion to show you the amount of money we are able to save you on an equipment of this kind. It may be possible, however, that the above outfit will just fill your requirements, and if you send your order in at once, we can give you prompt shipment and we will at once proceed to make up your complete instructions, so that you will have no trouble in getting the material installed.





# SINKS AND FITTINGS



## HALF CIRCLE URINALS, 88c

No. 5-A-609. Porcelain enameled iron half circle Urinal, fitted with lead waste pipe for straight wall.  
No. 07 with the back 12 in., weight 11 lbs. Price, \$0.88  
No. 08 with the back 15 in., weight 16 lbs. Price, 1.20

## CORNER URINALS, 88c

No. 5-A-610. Porcelain enameled iron corner Urinal, fitted with lead pipe.  
No. 04 with the back 9 in., weight 6½ lbs. Price \$0.88  
No. 05 with the back 12 in., weight 8 lbs. Price 1.20  
We can furnish the above with connections threaded for iron pipe at an additional cost of.....25c.



## HALF CIRCLE SINKS, 74c

No. 5-A-611. Flat Rim cast iron half circle Sink, furnished with nickel-plated strainer, trap coupling and bolts. Length of back 24 in., width 14 in.  
Price painted....74c. Enameled...\$2.19

## SLOP HOPPERS AND BELL TRAPS, ONLY 82c

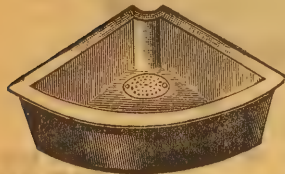
No. 5-A-612. Enameled iron or painted iron Slop Hopper

No. 12, size 12x12. Price painted.....\$ .82  
No. 12, size 12x12. Price enameled.....1.69  
No. 14, size 14x14. Price painted.....1.07  
No. 14, size 14x14. Price enameled.....2.19  
No. 16, size 16x16. Price painted.....1.19  
No. 16, size 16x16. Price enameled.....2.50



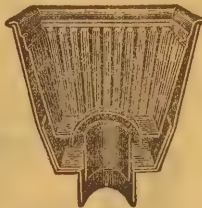
## CORNER SINKS, 69c

No. 5-A-613. Cast iron Flat Rim enameled iron or painted iron corner Sink, 6 in. deep, with nickel-plated strainer, bolts and Trap Collar. Length of sides 17 in. Radius of circle 25 in.  
Price painted.....\$0.69  
Price enameled.....2.19  
We can furnish the above sink with iron pipe connection at an additional charge of.....\$0.25



## SLOP HOPPERS \$2.50

No. 5-A-614. Painted or enameled square slop hopper, with cast iron removable strainer and bell trap. Price each.....\$2.50



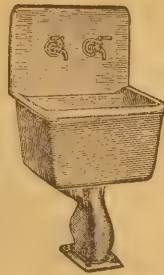
## ENAMELED GREASE TRAPS, POLISHED BRASS TRIMMINGS, COMPLETE, \$5.98



No. 5-A-619. Enameled iron Grease trap for open connection with removable cover, complete with polished brass trimmings, size 9x9. Price.....\$5.98  
If nickel-plated brass trimmings, are desired, Price will be.....\$6.29  
If iron pipe connections are desired on the fittings furnished for above trap, additional cost will be.....\$0.75

## IMPROVED SINK CONNECTIONS, 25c

No. 5-A-617. Modern sink connections complete, including nickel-plated strainer, bolts and trap coupling. Price for set complete.....25c.



## SLOP SINKS

Genuine white porcelain enameled roll rim slop sink with trap standard and high back, only.....\$9.85

## ROLL RIM SLOP SINKS

No. 5-A-615. Genuine white porcelain enameled cast iron roll rim slop sink on trap standard with cleanout and nickel-plated brass vent, roll rim back with concealed galvanized iron air chamber and two nickel-plated Fuller flanged faucets.

Price  
Size 16x20x12, enameled inside only.....\$ 9.85  
Size 16x20x12, enameled inside and out.....12.25  
Size 18x22x12, enameled inside only.....11.22  
Size 18x22x12, enameled inside and out.....13.92  
Size 20x24x12, enameled inside only.....12.07

## FLAT RIM ENAMELED SLOP SINKS, ONLY \$1.35

No. K 59. Cast iron flat rim Slop Sink, on trap standard with cleanout and brass vent connection.  
Sink as above with 2 brass bibbs.

No. K59. Slop Sink only, with out standard or bibbs.

Size	Painted	Enameled	Size	Painted	Enameled
16x16x10	\$5.25	\$7.00	16x16x10	\$1.35	\$3.75
16x20x12	5.75	7.50	14x20x12	1.75	4.25
20x24x12	6.75		16x20x12	2.00	5.00
			20x24x12	2.50	6.00



No. 323. Enameled Iron Slop Sink.

## PAINTED SLOP SINKS, ONLY \$1.00

No. 323. 12x12x6. Combined Slop Sink and bell trap, strainer, etc. Each.....\$1.00  
20x24x12 Ditto, each.....2.25  
15x15x10½ " ".....1.50  
14x20x12 " ".....1.60  
16x16x10 " ".....1.25  
16x16x9 " ".....1.25

## SINK STRAINERS, 9c

5-A-620. Sink Strainers, nickel-plated. Price, each, \$0.09



## SINK PLUGS, 25c

No. 5-A-621. Combination sink plugs as illustrated, complete with chain and rubber stopper. Price.....\$0.25

## SINK BOLTS, 1c

No. 5-A-622. Sink Bolts. Price, per pair.....1c



## SINK TRAP COUPLINGS, 10c

No. 5-A-623. Cast iron lead trap sink coupling Price.....\$0.10  
Same as above for iron pipe connection Price.....\$0.25



## BEDFORD URINALS, ONLY \$2.50

Brand New, Second Grade Bedfordshire Urinals. We can furnish with or without fitting.

Price, Urinal only, no fittings.....\$2.50  
Price, with Urinal Cock and Trap as shown in cut.....4.50  
½ circle Corner Urinals same price.



## ENAMELED IRON URINALS, \$9.00

No. U44. Cast iron roll rim Urinal, with roll rim back, all white porcelain enameled, brass bee-hive strainer and tailpiece, perforated brass flush pipe with loose key stop.  
24 inches long.....Price, \$ 9.00  
30 inches long.....Price, 9.90  
36 inches long.....Price, 11.40  
42 inches long.....Price, 13.50  
48 inches long.....Price, 15.00  
60 inches long.....Price, 20.40  
72 inches long.....Price, 24.75





# HEAVY CAST IRON ROLL RIM BATH TUBS. BRAND NEW.

Note that we can supply both "A" and "B" grade. The "A" grade tubs listed are guaranteed absolutely perfect in every way. All these tubs priced on these pages are guaranteed absolutely brand new, having never seen any service whatever. The "B" grade tubs are some that have been very slightly damaged in shipment and on which you will note we are able to make you an exceptionally low price. Remember, the "A" grade tubs are guaranteed strictly perfect in every way and as high-grade tubs as is on the market at the present time.

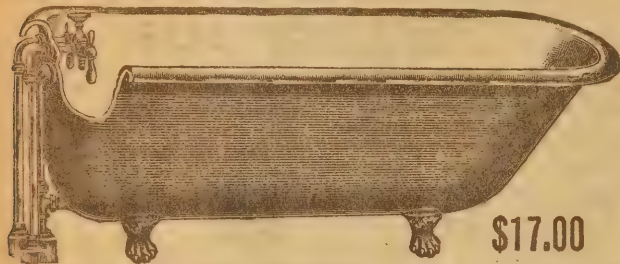
Why not put one of these modern bath tubs in your home? It is a very simple matter to make all connections with our complete instructions. Note that we can supply any of these tubs with iron pipe connections soldered on the outlets at a slight additional charge, which will simplify the matter of making the connections to a very considerable extent. It is the simplest thing in the world to put in a range boiler and a few feet of piping, etc., to make the connections. Connect it up with your kitchen stove and you can pipe the hot water to both your kitchen sink and bath tub and have a plentiful supply of hot water at all times.

Also, note our complete gas heaters listed separately in this book. Put one of these heaters in, in connection with your range boiler. This will supply all the hot water for bath purposes and you can have hot and cold water to the tub at all times. We instruct you fully how to do this work and we give you every possible assistance. There is certainly no reasonable excuse for any one to be without a modern bathroom equipment in their home, considering the very low prices at which we are able to furnish this material and the special inducements offered for getting the material installed.

The tubs listed on this page are all exactly the same tubs except as to quality; there being of course a difference between the "A" and "B" grade quality, as has already been explained. As to the numbers of the tubs, the only difference is in the amount of fittings that are furnished with them. You will note the different prices as are given, which prices are for exactly the same tub in each case, except that one has more fittings than another.

In ordering, be sure to state which quality you want, "A" or "B" grade. We guarantee these tubs to be exactly up to representation in every way and you are taking no chances whatever in ordering. Remember, your money will be refunded if not satisfactory.

The prices given on this page include the tub complete with crating ready for shipment. We make no extra charge for crating.



No. 5-A-650, Bath Tub.

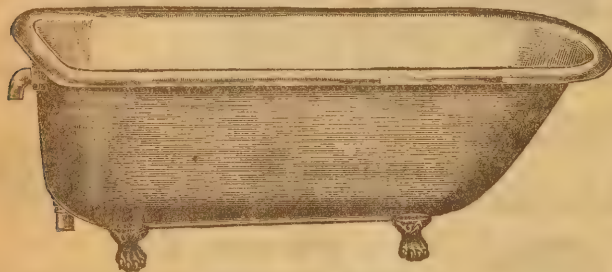
**\$17.00**

No. 5-A-650. Complete bathtub, strictly "A" grade with all nickel plated trimmings above the floor and guaranteed perfect. **\$17.00**  
Price, only .....

3-inch roll rim, white enameled, trimmed complete with nickel plated No. 4 1/2 Fuller double bath cock, nickel plated connected waste and overflow, rubber stopper, nickel plated chain and two nickel plated brass supply pipes.

	B Grade	A Grade
Length, 4 1/2 feet, price .....	<b>\$15.00</b>	<b>\$17.00</b>
Length, 5 feet, price .....	<b>15.00</b>	<b>18.00</b>
Length, 5 1/2 feet, price .....	<b>18.00</b>	<b>20.00</b>
Length, 6 feet, price .....	<b>20.00</b>	<b>22.00</b>

No. 5-A-651. We can furnish above tubs with iron pipe connections soldered on outlet, at an additional cost of 50c to above prices.



No. 5-A-652. Strictly "A" Grade tub without fittings.

Price, only..... **\$12.00**

STYLE No. 5-A-652. PRICE FOR TUBS WITHOUT ANY FITTINGS.

	B Grade	A Grade
Length, 4 1/2 feet, price .....	<b>\$10.00</b>	<b>\$12.00</b>
Length, 5 feet, price .....	<b>10.50</b>	<b>13.50</b>
Length, 5 1/2 feet, price .....	<b>12.00</b>	<b>15.00</b>
Length, 6 feet, price .....	<b>13.50</b>	<b>16.50</b>

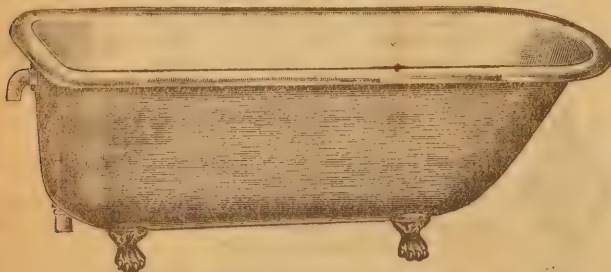


Illustration shows No. 5-A-654. Tub and Trimmings.

No. 5-A-654. Strictly "A" grade tub with Fuller double bath cock, waste plug and overflow strainer. **\$15.00**  
Price, only .....

Bath Tub consists of 3-inch roll rim enameled tub with trimmings as shown in No. 33, consisting of N. P. No. 4 1/2 Fuller double bath cock, nickel plated overflow strainer, nickel plated chain, rubber stopper and brass waste plug.

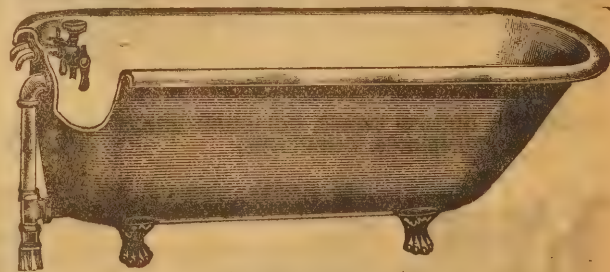
	B Grade	A Grade
Length, 4 1/2 feet, price .....	<b>\$13.00</b>	<b>\$15.00</b>
Length, 5 feet, price .....	<b>13.50</b>	<b>16.50</b>
Length, 5 1/2 feet, price .....	<b>15.00</b>	<b>18.00</b>
Length, 6 feet, price .....	<b>16.50</b>	<b>19.50</b>



No. 5-A-653. "A" grade tub with compression bath **\$14.75**  
cock waste and overflow fittings. Price, only.....

No. 5-A-653. Bath tub consists of 3-inch roll rim enameled tub as above, with N. A. compression double bath cock, nickel plated overflow strainer, nickel plated chain, rubber stopper and brass waste plug

	B Grade	A Grade
Length, 4 1/2 feet, price .....	<b>\$12.75</b>	<b>\$14.75</b>
Length, 5 feet, price .....	<b>13.25</b>	<b>16.25</b>
Length, 5 1/2 feet, price .....	<b>16.75</b>	<b>17.75</b>
Length, 6 feet, price .....	<b>18.25</b>	<b>19.25</b>



No. 5-A-655. Bath Tub.

No. 5-A-655. Strictly "A" grade cast iron enameled tub with connected waste and overflow and Fuller bath cock. **\$16.00**  
Price, only .....

3-inch roll rim, white enameled, trimmed complete with nickel plated No. 4 1/2 Fuller double bath cock, nickel plated connected waste and overflow, rubber stopper, nickel plated chain.

	B Grade	A Grade
Length, 4 1/2 feet, price .....	<b>\$14.00</b>	<b>\$16.00</b>
Length, 5 feet, price .....	<b>14.50</b>	<b>17.50</b>
Length, 5 1/2 feet, price .....	<b>16.00</b>	<b>19.00</b>
Length, 6 feet, price .....	<b>17.50</b>	<b>20.50</b>



## Genuine White Porcelain Enameled Cast Iron Bath Tubs

### High Grade

We are offering you a strictly perfect cast iron, seamless, white porcelain enameled bath tub, guaranteed in every way. Our guarantee means that should the enameling in any way chip or become defective within one year after its purchase that we will furnish another tub to replace it, provided tub is returned to us by freight and the dated guaranteed label attached to tub to be returned with the tub. We do not mean to replace the fittings with this after they have been used.

Our guarantee only includes replacing of the tub itself.

These tubs have a 3-inch roll rim, fancy designed cast iron feet, are enameled on the inside and over the roll rim, and painted with one coat of iron filler on the outside.

We will finish these tubs on the outside with a zinc white finish, using five coats of paint, the first coat being rubbed off with sand paper and pumice stone, the finish being perfect and smooth, at an additional price of \$9.50. Tubs when so finished have to be boxed; they cannot be shipped crated. Our price for the additional finish includes the boxing and delivery on board cars.

These tubs are furnished complete with the following fittings: Nickel plated Fuller double bath cocks, nickel plated standing Roman waste, nickel plated brass supply pipes, nickel plated floor flanges, etc., all the trimming being high grade.



No. 5-A-656.

Price includes tub and trimmings.

Length, ft.	
4	\$28.00
4½	28.00
5	30.00
5½	33.00
6	36.50

No. 5-A-657.

Just the same as above but without our guaranteed label, at the following prices:

Length, ft.	
4	\$26.00
4½	26.00
5	28.00
5½	31.00
6	34.50

We can furnish above Tub with iron pipe connection wiped on outlet at an additional cost of 50 cents to the above prices.

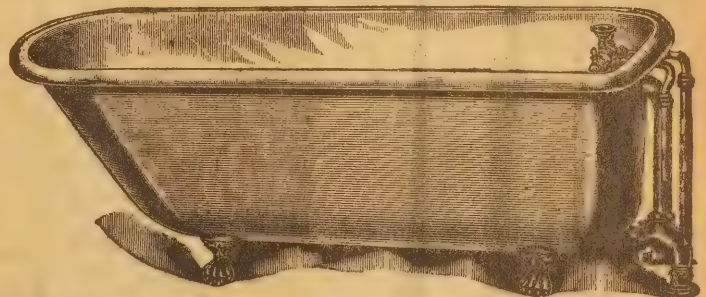
No. 5-A-658.

Three inch roll rim porcelain enameled iron tub, trimmed with nickel-plated No. 4½ Fuller double bath cock; nickel-plated off-set supply pipes, and combined nickel-plated, connected waste and overflow and bath trap; nickel-plated chain and rubber stopper. The trap on the connected waste and overflow is of heavy cast brass, with a clean-out plug, and the whole is heavily nickel-plated.

Cast iron roll-rim Bath Tub with combination trap, strictly

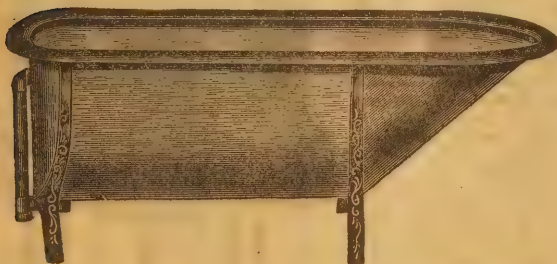
"A" grade, only.		\$22.00
4 foot tub.	5½ foot tub.	25.50
4½ foot tub.	6 foot tub.	28.50
5 foot tub.		23.00

1½ iron pipe thread tail piece on outlet of trap, extra, \$0.50.



## Steel Bath Tubs.

Steel Bath Tub, No. 5-A-659.



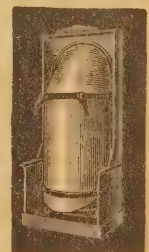
This is a strictly new guaranteed perfect sheet steel Bath Tub, made of one thickness of galvanized steel. It is strong and durable and just the tub to make comfortable the home of those in moderate circumstances. The tub has 2 soldered seams and these seams are supported by iron mountings extending up to the rim. They are furnished with improved legs made with detachable feet. The feet are taken off for crating and cannot be broken in transit. The tubs are furnished with nickel plated connected waste and overflow, with rubber stopper and these are removed and packed inside for shipping. These tubs are fitted with heavy oak wood rims, made from 1½ inch stock, carefully filled, finished, rubbed and varnished. All tubs white enameled inside and light blue enameled outside. The legs and iron mountings are neatly bronzed. Width over rims 27½ inches, width inside 22½ inches, height over all set up 22 inches, depth inside 18 inches.

Size 4 feet long.	\$5.50
Size 5 feet long.	6.00
Size 5½ feet long.	6.25
Size 6 feet long.	7.00

## Folding Bath Tubs.



OPEN.



CLOSED.

PORTABLE,  
COMPACT,  
ALWAYS  
READY.

These illustrations show the newest and best Folding Bath, with iron heater. These tubs are portable and not fastened to the wall; they operate same as a folding bed. When closed can be stored in a space 2½x2½x5 feet 8 inches. We have no lever or wooden wheels in our device to break or get out of order. Our folding device is the simplest, strongest and most complete device known.

The Tub is made of galvanized steel, white enameled inside and blue outside. The enamel is baked on. The Tub is reinforced with iron bands, terminating in the feet. Has a polished wood rim, and an outlet that can be easily attached to an iron pipe or the water can be conducted away through a rubber hose.

Ordinarily the heater is furnished for gasoline, but we will furnish heater for natural or manufactured gas or for oil. In ordering state kind of burner wanted.

No. 5-A-660—Price of Complete Folding Bath and Heater.....\$21.85

No. 5-A-661—Price of Folding Bath without Heater.....13.00

These Folding Tubs are usually shipped from our factory in Michigan.



# White Enameled Lavatories

A complete assortment to select from. Shapes, sizes and designs to suit every taste and requirement. Think it over: Would not one of these lavatories, properly placed, prove to be a wonderful convenience in your home and save an endless amount of running up and down stairs, as is the case when you have only one lavatory, in your bath-room on the second floor? Put in one of these modern lavatories on the first floor. If your house is already built, you can very easily, by a little careful planning, find some nook or corner that would be specially adapted to accommodate a lavatory of this kind. Under the stairway in the front reception hall, or in the hall leading off the kitchen in the rear, it would be especially desirable, where the members of the family could rinse their hands and brush up coming in or going out. It would save the time and trouble of running up and down the stairs.

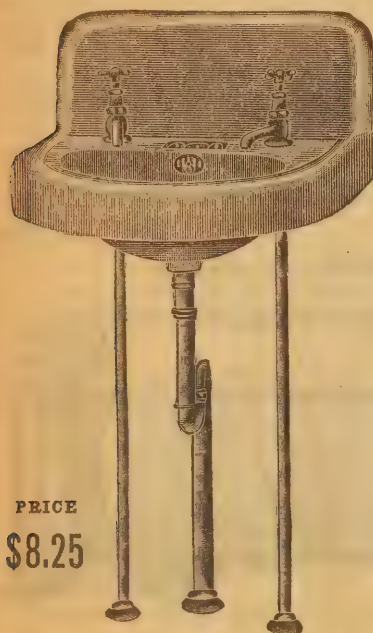
If you are planning a new home, do not overlook this feature in laying out your plans. It is positively a necessity. It is not a difficult matter to put in one of these lavatories. One afternoon's work will do the entire job. We can furnish you all the piping, fittings, connections, etc. You can connect the hot and cold water up right from your kitchen range boiler without any trouble whatever. We instruct you fully.

No farm house should be without a wash-room fitted out with a number of these lavatories. Note the very low prices at which we are offering them. Don't delay a moment. Look over these pages carefully. Select a lavatory or a number of them, as you may require, and send in your order at once. You can install them yourself, or get some handy mechanic to do the work, and by following our complete plans and instructions and also taking advantage of our iron pipe connection system, you will have no trouble whatever in getting these lavatories installed without a hitch. Remember we can wipe the joints for you here at our plant. No skilled plumbing work required.

## Enameled Iron One-Piece Straight Wall Lavatory, Deep Apron.

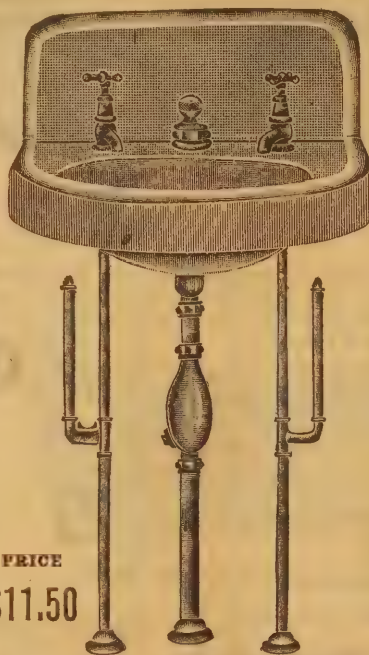
No. 5 A. 586. Enameled iron, one-piece, straight to wall lavatory, with deep half-circle apron. This lavatory has a D pattern bowl equipped with sanitary nickel-plated brass soap tray, improved brackets, nickel-plated waste plug, chain and rubber stopper, low down compression faucets with china tops marked "Hot" and "Cold", nickel-plated supply pipes and nickel-plated adjustable S trap with waste to floor and vent to wall. Size of slab 18"x21", height of back 8", size of bowl 10"x14". Price of this complete lavatory as above described, ready to set up, only .....\$9.90

Price for above lavatory as described, in B grade quality, very slight defect in the enamel, only.....\$8.25



PRICE

\$8.25



## Enameled Iron One-Piece Lavatory, Deep Apron, Ideal Waste.

No. 5 A. 587. Genuine white porcelain enameled cast iron, one-piece lavatory, with D pattern bowl. Lavatory is furnished with improved brackets, nickel-plated model lifting waste, low down compression faucets with china tops marked "Hot" and "Cold", offset air chamber supply pipes, bottle trap with waste to floor and vent to wall. Size of slab 18"x21", height of back 8", size of bowl 10"x14". Price for the above lavatory complete, strictly A grade and perfect as described, only .....\$13.60

We can furnish above outfit as described, in B grade quality, for only .....\$11.50

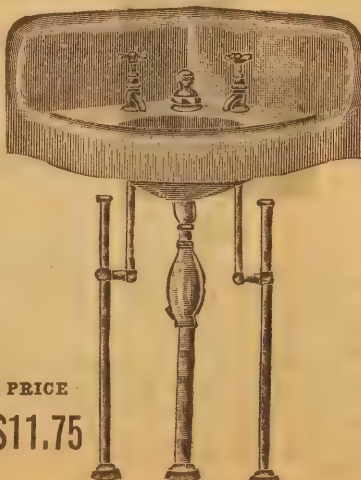
PRICE

\$11.50

## Enameled Iron One-Piece Corner Lavatory, Ideal Waste.

No. 5 A. 588. Genuine white porcelain enameled, one-piece, cast iron corner deep apron lavatory, with oval bowl, improved corner brackets, nickel-plated model waste, low down compression faucets with china tops marked "Hot" and "Cold", offset air chamber supply pipes, bottle trap with waste to floor and vent to wall. Length of sides 20", height of back 8", size of bowl 11"x14". Strictly A grade and perfect. Price only.....\$13.86

We can furnish above outfit in B grade quality for only.....\$11.75



PRICE

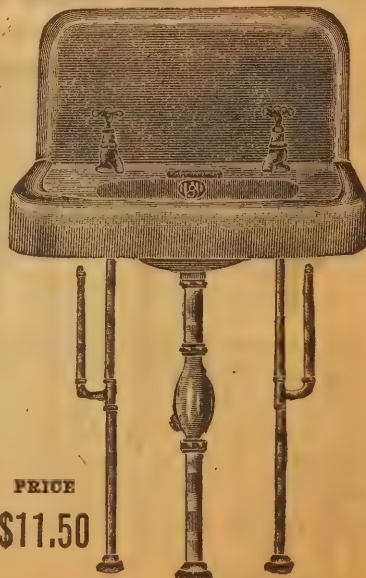
\$11.75

## Enameled Iron One-Piece Straight Wall Lavatory, High Back.

No. 5 A. 589. Genuine white porcelain enameled, one-piece, square apron lavatory, with D pattern bowl, improved brackets, nickel-plated waste plug and couplings, chain and rubber stopper, low down compression faucets with china tops marked "Hot" and "Cold", offset air chamber supply pipes, bottle trap, with waste to floor and vent to wall. Size of slab 18"x24", height of back 12", size of bowl 11"x15". Price for above outfit as described, only.....\$13.38

We can furnish this outfit, in B grade quality, for only.....\$11.50

We can also furnish the above outfit in larger size, with 20"x24" slab at an additional cost of \$1.00 to the above price.



PRICE

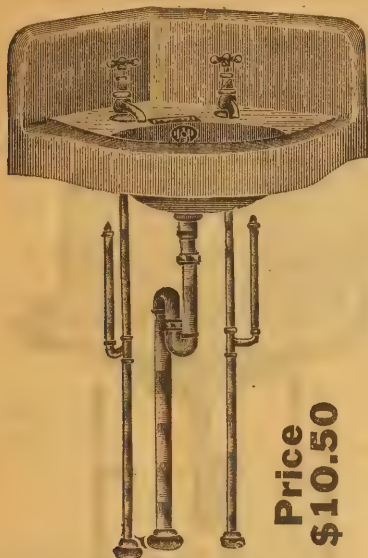
\$11.50

We can furnish all of the above lavatories with iron pipe connections, and wipe the outlets so that no plumbing work will be required, at an additional cost of 70 cents to the prices quoted above. All supply pipes on these lavatories are already threaded for % iron pipe connections.



**Enameled Iron One-piece Corner Lavatory, Deep Apron, only \$12.50**

No. 5 A. 590. Genuine white porcelain enameled, one-piece, corner deep apron lavatory, with D pattern bowl, sanitary soap tray, improved corner brackets, nickel-plated waste plug and couplings, low down compression faucets, chain and rubber stopper, faucets fitted with china tops marked "Hot" and "Cold", offset air chamber supply pipes, and S trap with waste to floor and vent to wall. Length of sides



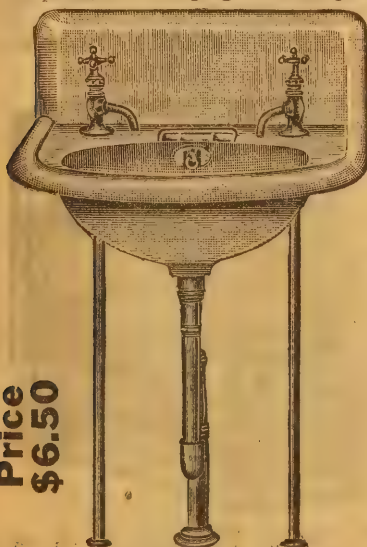
**Price  
\$10.50**

20", height of back 8", size of bowl 10"x14". Price for above lavatory as described, strictly A grade and perfect, only...\$12.50

We can furnish this outfit in B grade quality for only.....\$10.50

**Enameled Iron One-piece Lavatory, Vented Trap, only \$8.40**

No. 5 A. 593. Genuine white porcelain enameled, one-piece, half-circle lavatory, with D pattern bowl, sanitary soap tray, improved brackets, nickel-plated compression faucets, chain and rubber stopper, nickel-plated waste plug and couplings,



**Price  
\$6.50**

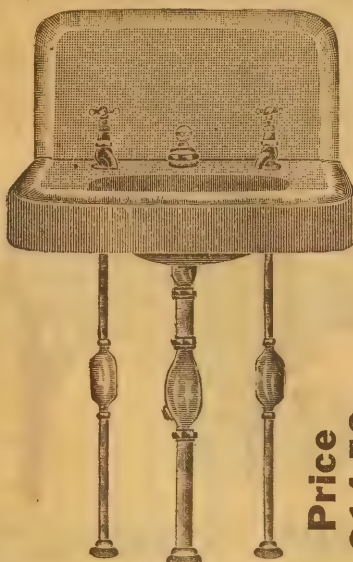
nickel-plated straight supply pipes and S trap with waste to floor and vent to wall. Size of slab 17"x19", height of back 6", size of bowl 10"x14". Price for this lavatory, as described, only.....\$8.40

We can furnish the above outfit in B grade quality for only.....\$6.50

We can furnish all of the above lavatories, with iron pipe connections, wiped on the outlets so that connection can be made direct to iron pipe, at an additional cost of 70 cents. All supply pipes on these lavatories are already threaded for 3/8" iron pipe connections.

**Enameled Iron One-piece Straight Wall Lavatory, High Back, only \$16.14**

No. 5 A. 591. Genuine white porcelain enameled, one-piece, square apron lavatory, with D pattern bowl, improved brackets, nickel-plated waste plug and couplings, chain and rubber stopper, low down compression faucets with china tops marked "Hot" and "Cold", nickel-plated model waste, bottle air chamber supply pipes,



**Price  
\$14.50**

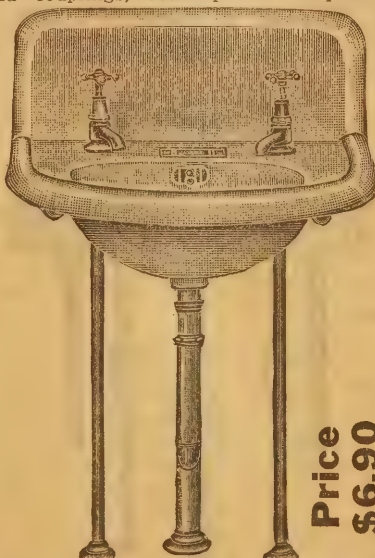
bottle traps with waste to floor and vent to wall. Size of slab 18"x24", height of back 12", size of bowl 11"x15". Price for above outfit as described, only.....\$16.14

We can furnish the above outfit in B grade quality for only.....\$14.50

We can also furnish the above outfit in larger size, with slab 20"x24" at an additional price of \$1.00 over above prices.

**Enameled Iron One-piece Lavatory, price only \$8.80**

No. 5 A. 594. Genuine white porcelain enameled, one-piece, half-circle lavatory, with D pattern bowl, sanitary soap tray, improved brackets, nickel-plated waste plug and couplings, nickel-plated compression



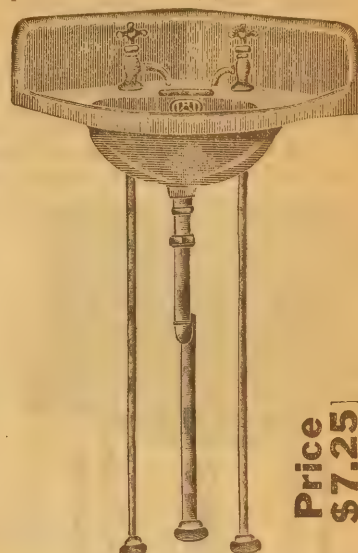
**Price  
\$6.90**

faucets, nickel-plated straight supply pipes, and S trap with waste to floor and vent to wall. Size of slab 18"x21", height of back 8", size of bowl 10"x14". Price for this lavatory, as described, only.....\$8.80

B grade, Price.....6.90

**Enameled One-piece Corner Lavatory Complete, only \$9.22**

No. 5 A. 592. Genuine white porcelain enameled, one-piece, corner lavatory, with D pattern bowl, nickel-plated brass sanitary soap tray, improved corner brackets, nickel-plated waste plug and couplings, chain and rubber stopper, nickel-plated compression faucets, supply pipes and S



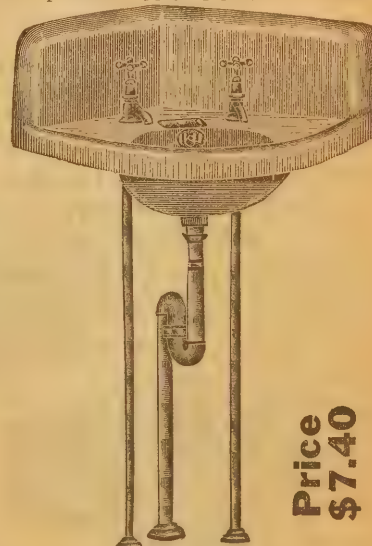
**Price  
\$7.25**

trap with waste to floor and vent to wall. Length of sides 16 1/2", height of back 6", size of bowl 10"x14". Price for above lavatory, complete as described, strictly A grade and perfect, only.....\$9.22

We can furnish above outfit in B grade quality, complete as described, for only.....\$7.25

**Enameled Iron One-piece Corner Lavatory, only \$8.82**

No. 5 A. 595. Genuine white porcelain enameled, one-piece, corner lavatory, with D pattern bowl, sanitary soap tray, improved brackets, nickel-plated waste plug and couplings, chain and rubber stopper, nickel-plated supply pipes, S trap with



**Price  
\$7.40**

waste to floor and vent to wall. Length of sides 19 1/2", height of back 6", size of bowl 11"x15". Price for this lavatory, as described, strictly A grade and perfect, only.....\$8.82

We can furnish above outfit in B grade quality for only.....\$7.40



# ENAMELED LAVATORIES

**Genuine Porcelain Enameled Iron One-Piece Lavatory, Model Waste Vented Trap, complete, only \$12.50**

**No. 5-A-596.** Genuine white porcelain enameled, one-piece, square lavatory, with D pattern bowl, improved brackets, nickel-plated model waste, nickel-plated Fuller faucets, offset air chamber supply pipes and bottle trap, with waste to floor and



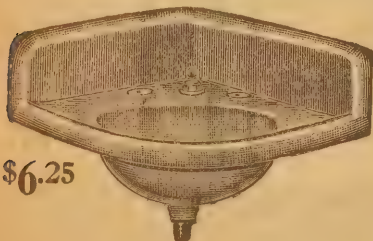
**\$12.50**

vent to wall. Size of slab 18"x24", height of back 10", size of bowl 11"x15". Price for this outfit as above described guaranteed strictly A grade in every way, only .....\$14.04

**No. 5-A-596B.** We can furnish this lavatory in B grade quality for only.....\$12.50

**Enameled Iron Corner Lavatory, with Model Waste, only \$6.25**

**No. 5-A-599.** Genuine white porcelain enameled, one-piece corner lavatory, fitted with nickel-plated model waste and improved brackets; length of side 20½", height of back 6", oval bowl 11"x14". Price



**\$6.25**

for the above lavatory, complete, guaranteed A grade and perfect, only.....\$7.32

**No. 5-A-599B.** We can also furnish this lavatory in B grade quality for only.....\$6.25

**Enameled Iron One-Piece Half-Circle Lavatory, Model Waste, only \$6.25**

**No. 5-A-598.** Genuine white porcelain enameled, one-piece half-circle lavatory fitted with nickel-plated model waste and improved corner brackets; size of slab 18½"x21", height of back 8", oval bowl 11"x14".



**\$6.25**

**No. 5-A-598.** Price for this lavatory, complete as described, guaranteed A grade and perfect, only.....\$7.20

**No. 5-A-598B.** We can furnish above lavatory in B grade quality for only.....\$6.25

**Genuine Porcelain Enameled Lavatory One-Piece Apron Pattern, only \$11.50**

**No. 5-A-600.** Genuine white porcelain enameled, cast iron lavatory; one piece, apron pattern, without back; oval bowl, waste plug and couplings, chain and rubber stopper, low down compression faucets with china tops, marked "Hot" and "Cold"; bottle air chamber supply pipes and bottle trap, with waste to floor and vent to wall.



**\$11.50**

Size of slab 20"x24", size of bowl 12"x15". Price for this complete lavatory as above described, strictly A grade and perfect, only.....\$13.74

**No. 5-A-600B.** We can furnish the above outfit in B grade quality for only.....\$11.50

**Enameled Iron One-Piece Lavatory Fuller Faucets, Vented Trap, complete, only \$9.25**

**No. 5-A-597.** Genuine white porcelain enameled, one-piece, square lavatory, with D pattern bowl, improved brackets, nickel-plated waste plug and couplings, chain and rubber stopper, nickel-plated Fuller faucets, offset air chamber supply pipes and S trap, with waste to floor and vent



**\$9.25**

to wall. Size of slab 18"x24", height of back, 10", size of bowl 11"x15". Price for this lavatory, complete as described, strictly A grade and perfect, only...\$10.60

**No. 5-A-597B.** We can furnish above outfit in B grade quality for only.....\$9.25

**Our Sure Hold Adjustable Wall Lavatory Brackets**



**No. 5-A-601.** The above cut represents our Sure Hold Adjustable Wall Brackets. We furnish this pattern of bracket with all cast iron enameled lavatories described on these pages. The special feature about this bracket is that it can be adjusted according to the exact width of the lavatory, regardless of any location of the studding in the wall to which the lavatory is to be fastened. In other words, you do not have to get the bracket exactly beside the studding in the wall and you can set the lavatory just where you want it.



# Enameled Pedestal Lavatory

The most elegant lavatory you could place in your home. Massive appearance; most modern and artistic design and highest grade nickel-plated trimmings.



No. 5-A-529. Consists of modern handsome white enameled iron Lavatory, oval slab with aprons and oval basin cast in one piece. It stands on a white enameled cast iron pedestal, and has nickel plated clamps and floor bolts. Trimmed with nickel plated, semi-low-down compression basin cocks, cross and ball handle with china index marked "Hot" and "Cold," with nickel plated Roman lifting waste with china index marked "Waste" with air chamber supply pipes to the wall with a wheel-handled stop valve on each, with nickel plated flask trap, vented, with vent and waste to wall, wall flanges, etc.

High Grade Outfit, price . . . . \$28.00

## White Enamel Lavatories



No. 5-A-533.

One-Piece, Enameled Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug, Rubber Stopper and Chain Stay, 12-inch Round Bowl. Length of back, 15 inches. Height of Back, 6 inches. Price, each. . . . . \$3.25



No. 5-A-534.

Corner One-Piece, Enameled, Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug, Rubber Stopper and Chain Stay, Nickel Plated Soap Cup, Oval Bowl, 11x15. Length on Side, 16 inches. Height of back, 6 inches. Price, each. . . . . \$4.25

Solid, One-Piece, Seamless, Iron Lavatories, White Porcelain Enameled. Each one complete with brackets and nickel plated overflow. No other fittings. Our charge for fittings extra is noted below. These lavatories are absolutely new, but are Class "B" with Ivory Enamel, or pin hole or some other slight blemish.

No. 5-A-530.

Same as 5-A-534, with 8-inch back. Price, each. . . . . \$4.65

No. 5-A-531.

Same as 5-A-534. Length on sides, 19 inches. Bowl, 11x15. Height of back, 8 inches. Price, each. . . . . \$5.00

No. 5-A-532.

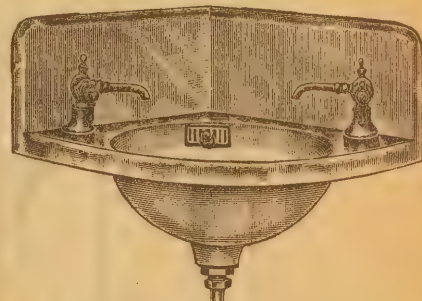
Same as 5-A-536, with 8-inch back. Price, each. . . . . \$4.65

No. 5-A-533.

Same as 5-A-536. Size of slab, 18x24, 10-inch back. Price, each. . . . . \$6.25

### LAVATORY TRIMMINGS.

Basin Cocks, Fuller, per pair. . . . .	\$1.70
Basin Cocks, Compression, each. . . . .	.55
Basin Cocks, Compression, extra pattern, Cross and Ball Handle and China Indexes, made with stuffing box, per pair. . . . .	2.50
1½ N. P. plain "S" traps, each. . . . .	1.75
1½ N. P. plain "P" traps, each. . . . .	1.65
1½ N. P. vented "S" traps, each. . . . .	2.00
1½ N. P. vented "P" traps, each. . . . .	1.90
Supply pipes—straight N. P., per pair. . . . .	1.50
Supply pipes—air chamber, N. P., per pair. . . . .	2.00
Supply pipes—to wall, no air chamber, N. P., per pair. . . . .	1.75
Supply pipes—to wall, air chamber, per pair. . . . .	2.50



No. 5-A-535.

Corner One-Piece, Enameled Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug, Rubber Stopper and Chain Stay; 12-inch Round Bowl. Length on sides, 15 inches. Height of back, 6 inches. Price, each. . . . . \$4.25



No. 5-A-536.

One-Piece, Enameled Lavatory, with Nickel Plated Overflow, Strainer, Waste Plug, Rubber Stopper and Chain Stay; Oval Bowl 11x15. Length of back, 19 inches. Height of back, 6 inches. Price, each. . . . . \$4.65



# Marble Lavatories Highly Polished. Guaranteed "A" Grade and Brand New and Perfect.

Polished Marble Straight Wall Lavatory, only..... \$9.00

Polished Marble Corner Lavatory, only..... \$9.00

Polished Marble Straight Wall Lavatory, only..... \$7.25



No. 5-A-556.

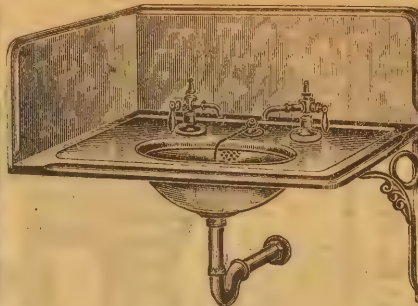
Brand new Champion Pink Tennessee or Italian marble straight wall lavatory, as above, guaranteed perfect in every way. This outfit is furnished complete with nickel-plated Fuller basin cocks, one pair of nickel-plated brackets, nickel-plated "S" trap from basin to floor, including floor flange plate, exactly as above. Price, with 14" round basin..... \$ 9.00  
Price, with 14"x17" oval basin..... 10.00  
We will furnish "P" trap to wall instead of "S" trap to floor, at same price.  
If nickel-plated supply pipes are desired, add 1.50  
Can furnish these either to floor or to wall.

Polished Marble Lavatory for Straight Wall, only..... \$11.50



No. 5-A-559.

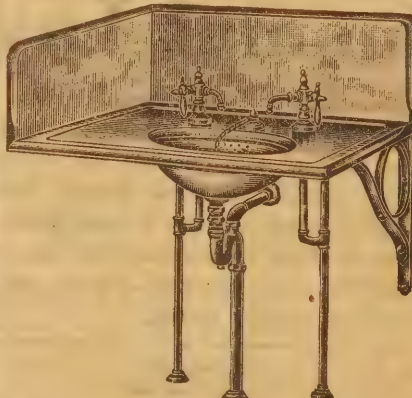
Consists of 14" Italian marble lavatory solid countersunk slab with back, patent overflow with basin metal plug and rubber stopper, nickel-plated chain stay and snap, two Fuller nickel-plated basin cocks, two nickel-plated brass brackets and three basin clamps, 4" brass nickel-plated "S" trap with waste to floor and vented to wall, two nickel-plated supply pipes to floor with air chamber, floor and wall flanges complete. Price for above outfit with 14" round earthenware bowl..... \$11.50  
Price for above outfit in Tenn. marble..... 11.00  
If 14"x17" bowl is desired, add..... 1.00



No. 5-A-557.

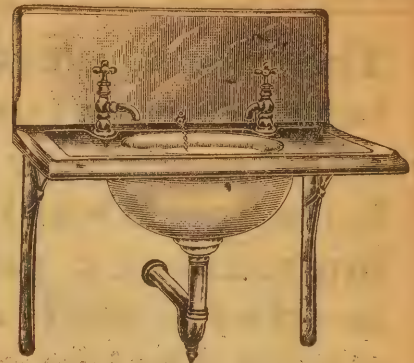
Brand new Champion Pink Tennessee or Italian marble corner lavatory as above, guaranteed perfect in every way. This outfit is furnished complete with nickel-plated Fuller basin cocks, one pair of nickel-plated brackets, nickel-plated "S" trap from basin to floor including floor flange plate, exactly as above. Price, with 14" round basin..... \$ 9.00  
Price, with 14"x17" oval basin..... 10.00  
We will furnish "S" trap to floor instead of "P" trap to wall, at same price.  
If nickel-plated supply pipes are desired, add 1.50  
Can furnish these either to floor or to wall.

Polished Marble Lavatory for Corner, only..... \$11.50



No. 5-A-560.

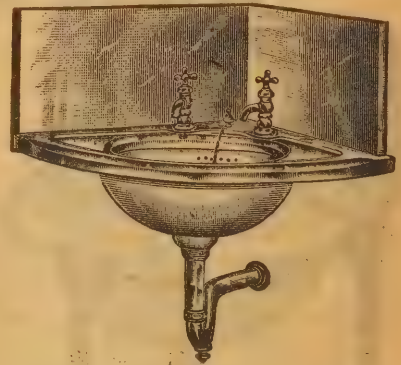
Consists of 14" Italian marble countersunk solid slab for corner with corner back pieces, patent overflow, basin with metal plug and rubber stopper, nickel-plated chain stay and snap, two Fuller nickel-plated basin cocks, two nickel-plated brass brackets and three basin clamps, 14" brass nickel-plated "S" trap with waste to floor and vented to wall, two nickel-plated supply pipes to floor with air chamber, floor and wall flanges complete. Price for above outfit, with one bracket, back and end piece for right or left hand corner. 14" round basin..... \$11.50  
Price for above outfit in Tenn. marble..... 11.00  
If 14"x17" bowl is desired add..... 1.00



No. 5-A-558.

Consists of Italian or Tennessee marble slab with single back earthenware basin, new compression basin cocks, brackets, new nickel-plated trap with waste to wall, wall flange clamps, chain and stopper. Price, with 14" earthenware basin..... \$7.25  
Price, with 14"x17" earthenware basin..... 8.00  
We can furnish vented traps with above outfit at an additional cost of..... .50  
Nickel-plated supply pipes, additional cost..... 1.50  
Nickel-plated "S" trap with waste to floor, same price.

Polished Marble Lavatory for Corner, only..... \$7.75



No. 5-A-561.

Consists of one-quarter circle Italian or Tennessee marble slab with two backs, new compression basin cocks, earthenware basin, nickel-plated trap with waste to wall, wall flange clamps, chain and stopper. Price for above outfit with 14" earthenware basin..... \$7.75  
Price, with 14"x17" basin..... 8.50  
If vented trap is desired with above outfit, add..... .50  
Nickel-plated brass supply pipes can be furnished at an additional price of..... 1.50  
Nickel-plated plain "S" trap with waste to floor at same price.

Polished  
Marble Corner Lavatory, only  
\$10.00

Consists of 1-circle Italian marble lavatory with two backs, Fuller basin cocks, 14-inch patent overflow porcelain basin, nickel-plated vented "P" trap, waste and vent to wall and nickel-plated supply pipes to wall, nickel-plated chain and rubber stoppers, clamps, flanges, etc., complete.

No. 24. Italian marble. 14 inch basin. Price..... \$10.00

No. 25. Italian marble. 14x17 inch basin. Price..... \$11.00

No. 24½. Tennessee marble. 14 inch basin. Price..... \$9.50

No. 25½. Tennessee marble. 14x17 inch basin. Price..... \$10.50

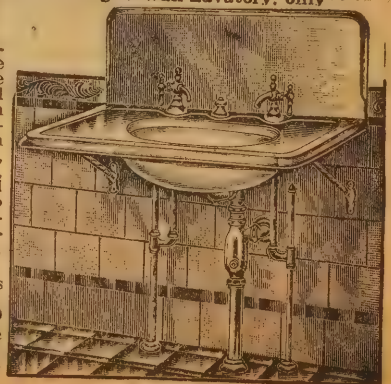
Trap and supplies to floor, no extra charge. Trap without vent, same price.

Polished Marble Straight Wall Lavatory, only  
\$16.00

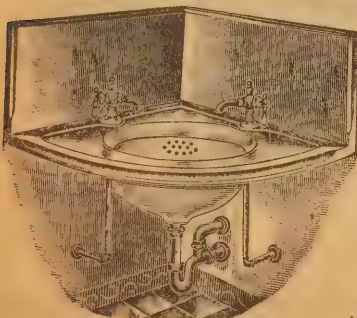
Consists of countersunk Italian marble lavatory with single back, oval basin and nickel-plated Roman lifting waste, nickel-plated Fuller basin cocks and air chamber, supply pipes to floor, nickel-plated vented flask trap, waste to floor, vent to wall, nickel-plated rope pattern brass brackets, flanges and clamps.

No. 59. Complete as described. Price..... \$16.00

No. 59½. Tennessee marble. Price..... \$15.50



No. 5-A-539.



No. 5-A-540.



# Closet Combinations of Every Description

The prices that we are offering on these closet outfits as listed in the following pages are positively the lowest prices that we ever placed before the public on this class of material. They are even lower than the prices that are regularly holding at the present time in the regular wholesale supply houses to plumbers. In other words, the prices at which you can buy these fixtures as listed on these pages are positively lower than your plumber himself can buy them. You can readily see what a saving you are making.

## An Imaginary Stone Wall

Did you ever stop to think what an enormous amount of money is needlessly expended every year by inexperienced persons in paying exorbitant plumbers' bills? Think it over. Ask your local plumber what he will put in one of these outfits for, all complete and set up in your home. Then look over these pages. You can easily select from this large assortment an outfit similar to the one he is figuring for you. Note the prices that we can furnish it to you. This will open your eyes to the situation. But why is it that people will persist in paying these exorbitant prices in spite of the fact that we can furnish this material direct to them at a fair and honest price, probably one-third of what the plumber has figured it in their bill? It is easy to find the answer to this question.

Take for instance an average person, who does not know the secrets of the Plumbing Trade. He will admit at once that the prices that we are offering these outfits; in fact, all of this plumbing material as listed on these pages is far below anything that can be secured from any concern in the country. However, the first thing he will ask is: "How can I install the material? Does it not require a skilled plumber to make the intricate connections and joints, etc., that are required and of which I know nothing about?" Here is the imaginary stone wall. We say imaginary and we can prove that this idea that the average person has about the difficulty of installing this material is imagination, pure and simple.

What is there to the installing of a closet anyway? If you once saw a plumber putting one of these outfits in and realized what a simple matter it was, you would well hesitate before you would pay any such prices as are usually demanded by plumbers for this work. Furthermore, if half the people of the country owning small homes and of average means could fully realize what a simple matter it is to install one of these outfits in their homes, there certainly would not be many homes without a modern convenience of this kind.

We want you to read carefully our complete instructions as given in our Special Heating Catalog. If you are contemplating any improvement of this kind, it will certainly be to your interest to read these instructions very carefully. The following is an extract taken from these instructions:

**THE CLOSET.** (Figure 39) shows the standard manner of connecting the closet with the soil pipe as it is usually arranged in the average dwelling house. Simply place a 4-inch standard sanitary tee in the line of soil pipe at point required; take a 4-inch combination lead bend and ferrule and caulk it into this tee; have the end of this ferrule projecting about an inch above the hole which has been previously sawed in the floor at the proper point; then carefully flange this bend around on the surface of the floor; take some ordinary putty and mould it around the edge of this opening and set the bowl in place. Be sure to put plenty of putty at this point and press the bowl down hard, screw it to the floor and you will have a good, tight joint. There is one important point to be considered in this connection, and that is to be sure to get the bowl set the proper distance from the wall. This is especially important in connecting a low-tank closet; if the bowl is set too close to the wall the tank will interfere with the seat and it cannot be raised properly; and if you set it too far away probably the connections will not be long enough to make the proper connection. There is an exact point at which this ought to be set, which can be very easily determined by setting the tank temporarily in place and measuring with the connection, and then marking on the floor the center point where the opening should be sawed out. The supply pipe to the closet tank is always  $\frac{3}{4}$ -inch and has a  $\frac{3}{4}$ -inch iron pipe thread on the end. This is a nickel-plated pipe.

What is there to it? Simply sawing a round hole in the floor, connecting up a 4-inch lead ferrule, which is nothing more or less than a short piece of lead pipe with a round collar to reinforce it. Flange the mouth of the bend over the floor and put a little putty around the opening; then set the closet bowl in place and screw it down. The only requirement is that the 4-inch pipe continues to the cesspool and that a connection is made to the  $\frac{3}{4}$ -inch supply pipe to the closet tank. It makes no difference in what direction or what manner you carry this 4-inch pipe to the sewer or cesspool, as long as you give it a gradual pitch in the direction in which the water is running. The cut as given on this page shows a tee placed in the soil pipe and the soil pipe continues up to the roof for ventilation. This makes a more sanitary job and is desirable where a bathroom outfit is being taken care of. However, if you are only putting in one closet, we would recommend that you use our No. 87A closet outfit with the special anti-siphoning ball cock which absolutely prevents siphoning, and when this is used, it is not necessary to run the soil pipe to the roof for ventilation, as it is impossible for the water to be drawn out of the trap in the closet bowl and no vent pipe is necessary, unless the bathroom fixtures or any others are connected to the same soil pipe. In this case, we would recommend that the 4-inch soil pipe be continued to the roof for ventilation.

We want you to read carefully the complete description of our No. 87A closet outfits, as given on page 179.

## The Only Requirement

The only requirement is that you have water under pressure in your building. It makes no difference whether you have a modern Air Pressure Outfit; whether you are supplied by the city water system or whether you have a simple and inexpensive Storage Tank in your attic. These closets as listed on these pages will give just as good satisfaction when supplied from an elevated tank in the attic as they will from any of the more expensive systems, and if you have a water supply system of this kind, you certainly should not be without one of these closet outfits; in fact, a complete bathroom equipment in your home.

## Sewerage System Not Essential

Many people have the impression that unless the sewerage system of the town is available for connection it is not practical to have one of the closet outfits installed. This is positively a mistake. It is a very simple matter to construct a sanitary cesspool which will give you no more trouble than if the pipe were discharging into the city sewerage system. We submit herewith a description of a sanitary Septic Cesspool which has been built by many of our customers, and if these instructions are followed, and one of these cesspools carefully built about forty feet distant from your house, you will never have any trouble in getting rid of the waste water. The chemical decomposition which takes place in the cesspool, renders stoppage impossible. Read these instructions carefully.

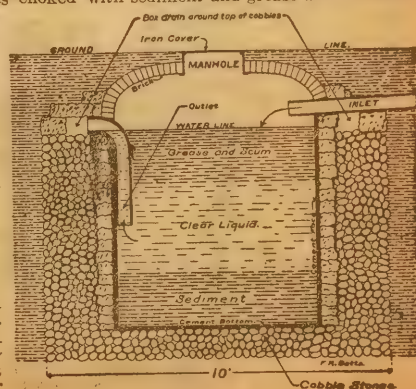
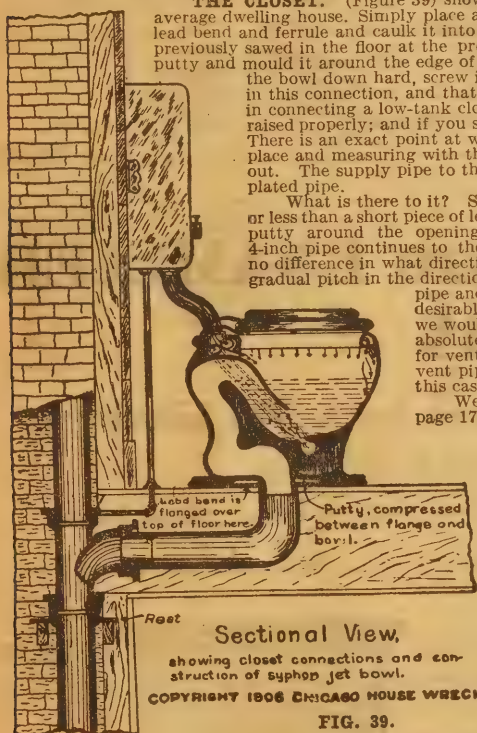
cesspool changing all to clear water which soaks away into the ground, and less liable to become stopped up and will last a much longer time than any other arrangement which could possibly be devised. The greater objection to a cesspool is its liability to clog and become water-tight. This usually takes place in a very short time in compact soils or in fine sand. The bottom soon becomes choked with sediment and grease and the water line rises until the cesspool becomes entirely filled up. Then the only remedy is to build a new one. By using the arrangement shown in this illustration, however, these objections are done away with. The aim of the design is to arrest the sediment and scum and bring comparatively clear liquid in contact with the absorbing surfaces, thereby prolonging the life and usefulness of the cesspool indefinitely. A careful study of the conditions existing in the cesspool led to this design. It has been found that there are three distinct layers in every cesspool: First, the sediment layer at the bottom; second, the clear liquid; on top of this the grease and scum, as shown in this illustration. It will be very clearly seen that by using a trap arrangement with the end outlet below the clear liquid line the grease and scum will be entirely prevented from getting up into the outside of the cesspool where the water is allowed to soak away.

There is of course a constant chemical decomposition going on in every cesspool, and this scum gradually decomposes and turns to clear liquid, passing away in the usual manner. The main idea in this construction is that this grease and scum does not get to the outside of the cesspool until it is decomposed, so that it cannot choke up the openings and prevent the water from soaking away.

A cesspool of this kind will last several years without cleaning and if the sediment is cleaned out from time to time it can be kept in serviceable condition for many years.

The cesspool, together with the air pressure water supply systems and other special conveniences which are to be had in these days, makes it possible for one to enjoy all the comforts of a city home in a country residence. You do not need to live in a city nowadays to have all these conveniences.

Do not let the matter of getting the work done prevent you from taking advantage of these very low prices. Send us in your order. We will furnish you any special instructions that your particular case may require. We will guarantee that you will be able to get it installed without a hitch. Remember, if you do not care to do the work, you can always get some ordinary mechanic who will be very glad to do it, and by following out our very clear instructions and you overseeing the work, you will get just as good a job done in every way as you will by your paying double or three times the price to your local plumber.





# SYPHON JET LOW DOWN CLOSET OUTFIT



Every  
Outfit  
Guaran-  
teed.

With Double Lined Steel Tank **\$15.00**  
Only . . . . .

## OUTFIT No. 88-A

Same as outfit No. 87A in every particular except that we furnish in this case a Syphon Jet Bowl. The Syphon Jet feature adds considerably to the efficiency of the flushing action and makes this combination without any question the highest grade outfit on the market.

Each outfit is furnished complete with Nickel Plated Supply Pipe and Flush connection, all necessary attachments, couplings, floor screws, gaskets, etc., and highly finished oak seat with nickel plated hinges.

Every outfit guaranteed A grade and perfect.

Supply pipe on each outfit provided with  $\frac{3}{4}$ -inch iron pipe connection.

Price each outfit as described . . . . . **\$15.00**

# LOW DOWN CLOSETS WITH ENAMELED STEEL TANKS

## Something New! A Radical Departure from Old Ideas

NO MORE LEAKY TANKS. NO MORE WARPED WOOD WORK

These Tanks are Made of Heavy Steel White Porcelain Enameled Both Inside and Out. Single Lined.

Light, compact, easily set up. Impossible for leaks to develop, Simplest Flushing Mechanism with fewest working parts of any tank on the market. Cannot get out of order.



SYPHON  
WASH  
DOWN  
OUTFIT,  
**\$9.50**

Presents an elegant appearance. Looks like solid porcelain. Imitation Mahogany finish wood cover. Without any question the best tank to be had on the market at any price.

The seat is furnished with cover and fitted direct to bowl with Nickel Plated hinges.

We can furnish these outfits with any kind of bowl Syphon Washdown, Syphon Jet, etc.

## Note Our Wonderfully Low Prices,

No. 251-A. Syphon Jet Outfit. Complete as described above. Price . . . **\$12.00**

No. 255A. Syphon Wash Down Outfit. Complete as described above. Price . . . . . **\$9.50**



SYPHON  
JET  
OUTFIT,  
**\$12.00**



# Special Closet Combination

No. 87-A.

**White Porcelain Enameled Steel Tank, Strictly "A" Grade and Perfect Compound Ball Cock. Simplest Flushing Mechanism on the Market**

**Special Bargain Offer Only \$11.50 Each**



**Every  
Outfit  
Guaranteed.**

the opening and the water comes in under the ball and causes it to float. It will therefore allow all the water in the tank to run out and flush the closet and as soon as the contents of the tank have been emptied, the rubber ball falls back into position and closes up the opening.

Also, another special feature about this closet is the refilling arrangement in connection with the ball cock. This consists of the small copper tube marked "a." After the entire contents of the tank have been discharged and the tank is refilling, a small percentage of the water is caused to rise up over this copper tube and flows down through the large brass tube "e," which leads to an opening in the closet bowl and this fills up the trap so that any possible syphoning of the trap in the closet which may have occurred in the flushing of the closet, will be entirely made up for by this additional water which is supplied after the closet has been flushed out.

These tanks are made entirely of steel. They consist of two separate enameled steel tanks, one within the other, the outer tank being genuine white porcelain enameled both inside and out, and the inside tank being also genuine porcelain enameled inside and out. In fact, both these tanks are enameled all over so that rusting or deterioration is impossible at any point.

Note that there is an air space of about half an inch between the two linings and this is to prevent the tank from sweating as it may do when there is only one separate compartment. The inside tank contains the water and with this air space between the two separate linings, it is impossible for the tank to sweat on the outside.

The tanks are equipped with a white porcelain enameled steel ornamental cover. The closet bowl furnished with these outfits, is the latest and most improved pattern of syphon washdown bowl and the entire outfit is furnished complete with nickel plated elbow flush connection, slip joints, nickel plated brass supply pipe with couplings, floor flanges, etc., and with 1/2 inch iron pipe threaded for iron pipe connection.

The outfit is also furnished complete with improved wood seat and cover with any finish you desire. We can furnish the woodwork in either light oak, dark oak, or imitation mahogany finish. This outfit is certainly without any question the highest grade outfit on the market at any price, and will improve the appearance of any bathroom 100%. The tank presents the massive appearance of solid porcelain tank, and would require close examination to determine whether it were genuine porcelain or not. Remember, these tanks are pure white, can easily be kept clean and you will never be troubled with a leaky tank or warped woodwork, etc., as is experienced with the old style wooden tanks. These tanks will last a lifetime. Special low price for these outfits as described. A limited number left. Send in your order at once.

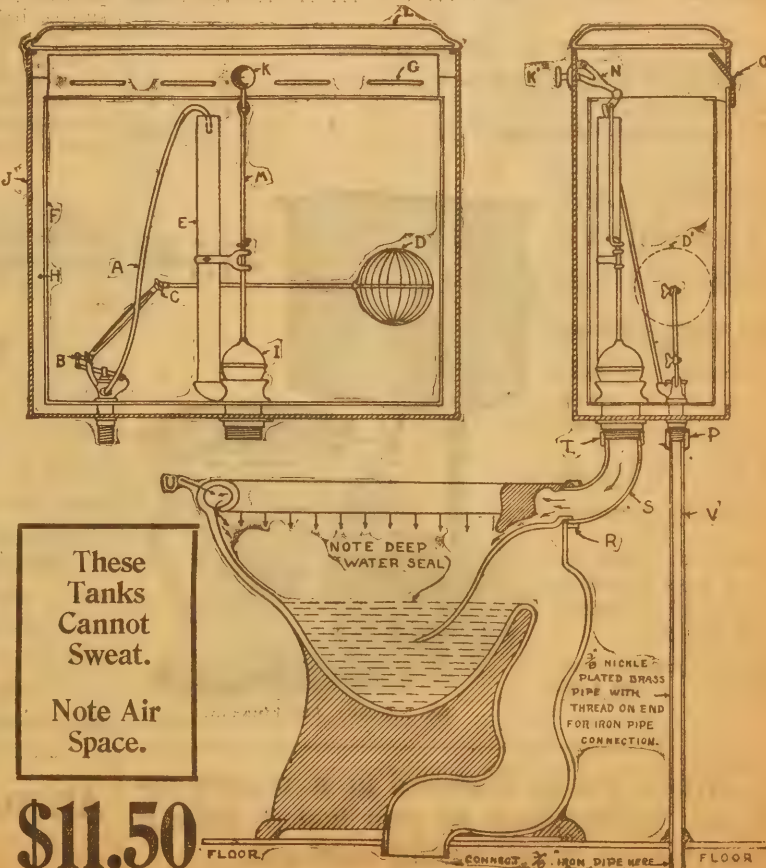
Price each, only.....

Here is positively the greatest bargain ever offered in an up-to-date modern closet combination. We could not possibly furnish you a more high grade outfit, regardless of what price you would pay for it. Every part of this combination to the most minute detail has been given itemized attention in design and workmanship and as this outfit stands, it represents the simplest possible construction, with the fewest working parts of any closet outfit on the market at the present time.

The flushing mechanism could not possibly be further simplified. We show herewith diagram views, showing the interior construction of the arrangement of the parts which operate the flushing mechanism. Note in particular the compound ball cock which will close against the highest pressure that will ever be experienced. In small towns especially, this ball cock is desirable. That is in small towns where the water pressure generally gets up to an extreme high point, sometimes as high as 75 to 100 lbs. Here is a ball cock that will close against even 150 lbs. pressure. The compound leverage, which is secured in the special construction of the beam, which closes the cock in connection with the float valve, gives it almost double the acting power, and renders leaking of the ball cock impossible, regardless of what pressure it has to operate against in closing the valve.

Note that this ball cock has an adjustable elbow at point marked "e" in the diagram. There is a small thumb screw at this point and by regulating the copper float ball "d" so that it will be at a certain height in the tank, you can regulate the amount of water that you want to use for flushing the closet to the exact point you desire. This is another very desirable feature, especially if you have an air pressure system or an elevated tank system of water supply in your home and where every drop of water counts. It saves useless waste of water, pumping, etc., as you can adjust this ball cock by setting the thumb screw at point "e" so that you will use just the amount of water that is required to flush the closet. No more and no less. With the old style outfits, there was only one point at which this ball could be set and hence a large amount of surplus water was lost in this way, which could be very easily saved.

Note the simplicity of the ball valve, that is, the large rubber ball marked "f" which is connected to the rods connecting with the small lever "n," which in turn is acted upon by the push button "k." Note that as soon as this push button is pressed in, the lever "n" causes the ball to rise out of



**\$11.50**



## Syphon Jet Low Down Closets



No. 5-A-548. Combination.

**\$17.00**

Each outfit complete as follows: Porcelain bowl, round cornered; polished hard wood low down, copper lined and nickel-plated clamps, polished hard wood seat and cover attached to earthenware bowl with nickel-plated brass seat attachments, fine nickel-plated flush connection and supply pipe, with floor plate, couplings, etc., nickel-plated push button action. The whole outfit complete and ready to connect. Strictly high grade.

No. 5-A-548. Combination.

Consists of outfit complete as above, and plain syphon jet bowl.  
Price each.....**\$17.00**

No. 5-A-549. Combination.

Same as the above, except bowl is second grade. The defects are very slight.

Price, complete combination.....**\$13.00**

## SYPHON JET WASHDOWN OUTFIT, \$15.00

No. 5-A-550. Combination.

Consists of outfit as above and plain syphon jet washdown bowl.

Price.....**\$15.00**

No. 5-A-551. Combination.

Same as above, except bowl is second grade. The defects are very slight.

Price, complete combination.....**\$12.00**



No. 5-A-550. Combination.

**\$15.00**

## Low Down Closets, Syphon Washdown



**\$13.00**

Each outfit complete as follows: Vitreous Porcelain Syphon Washdown Closet bowl, round cornered polished hardwood tank copper lined, with nickel-plated "push button" action, polished hardwood seat and cover attached to the bowl, with nickel-plated post hinges, nickel-plated elbow flush connection, nickel-plated supply pipe to the floor, nickel-plated floor plate, screws, etc. The whole outfit complete and ready to connect.

These Washdown outfits that we are offering at \$13.00, style No. 5-A-552,

No. 5-A-552. Combination.

are absolutely the most perfect and sanitary syphon closet on the market. We guarantee them in every way. They are brand new, strictly first class and perfect. Our low price gives you an opportunity to save anywhere from \$5.00 to \$10.00 on your purchase.

The closet bowl is made of the very highest grade semi-vitreous porcelain. They are as hard as flint, and have perfectly glazed surface, both outside and inside.

The tank and seat are made of hardwood thoroughly seasoned. The tank is lined with heavy copper and is complete with high pressure ball cock.

These outfits are made to last. You can buy with confidence, knowing that you are getting a superior article.

Price for above outfit as described only.....**\$13.00**

No. 5-A-553. Combination.

Same as above, only the bowl is second grade. The defects are very slight.

Price, complete combination.....**\$10.00**

## Mosaic Floor Tile

Beautiful Designs and Patterns.

Let us make you a figure on the complete tiling for your bath room, vestibule, halls, etc. You can lay it yourself and save 50 per cent.

Most complicated and elaborate designs just as easily laid as the plainest patterns by our special transfer system. Complete instructions with every order. You can't go wrong.

Write at once for our special catalogue, gives full particulars.

Would you be interested in a modern up-to-date heating plant for your home? Write at once for our special heating catalogue.

**All Kinds of Doors and Sash from St. Louis Exposition.**



## High Tank Genuine Syphon Jet Closet Combination, only \$13.00



**No. 5-A-543. Combination.**

Consists of Plain Syphon Jet Closet Bowl, with round cornered polished oak tank, with brackets; polished oak seat attached to bowl with nickel plated seat attachment; fine nickel plated flush and supply pipes; slip joint connection on flush pipe, and nickel plated chain and pull, seat bumper, floor screws, etc. Strictly High Grade Outfit.

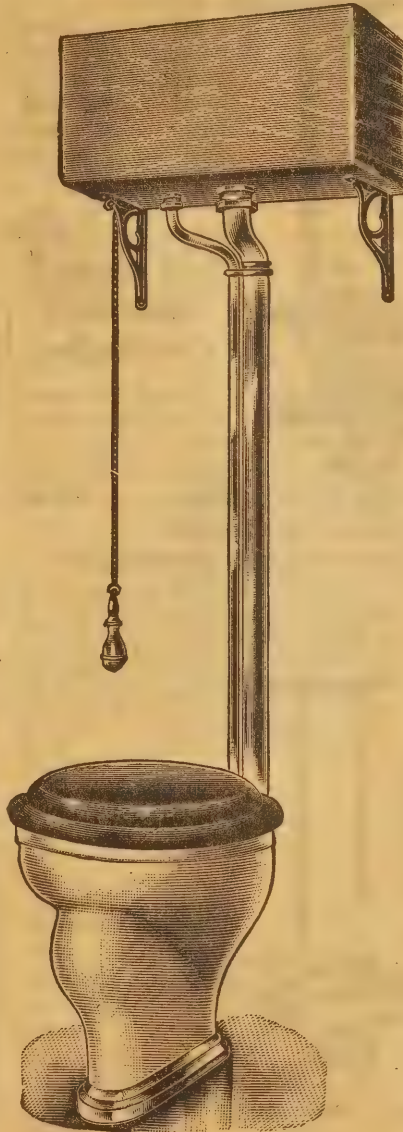
Price, as described. . . . . \$17.00

**No. 5-A-544. Combination.**

Same as above outfit, except that the bowl is second grade, with very slight defects.

Price, complete combination \$13.00

## High Tank Syphon Wash Down Outfit Complete, only \$12.00



**No. 5-A-547. Combination.**

Consists of Plain Washdown Closet Bowl, with round cornered polished hardwood, oak finished tank, with brackets, polished hardwood oak finished seat attached to bowl with nickel plated seat attachment, fine nickel plated flush and supply pipes, slip joint connection on flush pipe and nickel plated chain and pull.

Price, as described. . . . . \$12.00

## High Tank Syphon Jet Wash Down Outfit, only \$11.00



**No. 5-A-546. Combination.**

Consists of Plain Semi-Vitreous Porcelain Syphon Jet Washdown Closet Bowl, with round cornered polished oak tank, copper lined, with brackets. Polished oak seat attached directly to bowl, nickel plated flush and supply pipes, and nickel plated slip joint elbow connection, floor screws, chain and pull and rubber bumper.

Price, complete . . . . . \$14.00

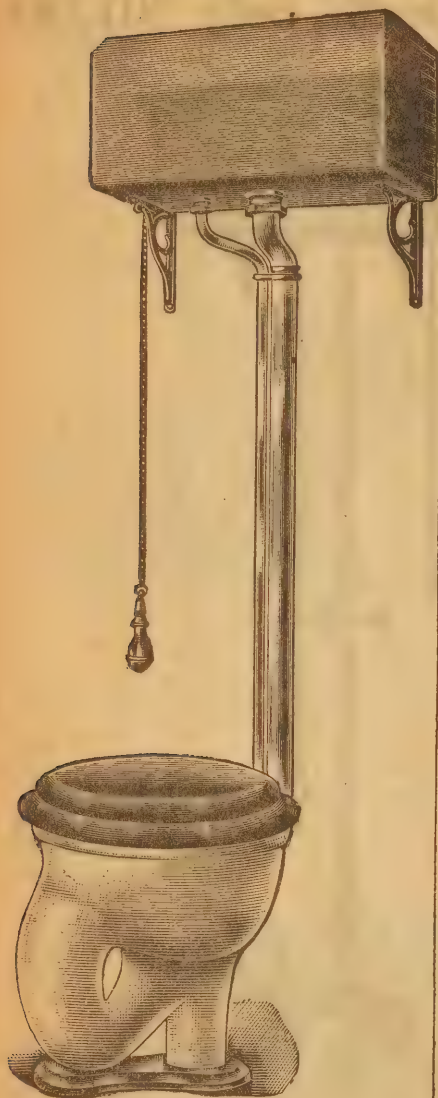
**No. 5-A-545. 1-2 Combination.**

Same as above, only bowl is second grade.  
Price. . . . . \$11.00

If without Flush and Supply Pipes, deduct \$2.00.



# Bargain Water Closet Combinations



No. 5-A-602.

## COMBINATION.

Consists of Plain Front Washout Closet Bowl, with round cornered polished hardwood, oak finished tank, brackets, polished hardwood oak finished seat attached to bowl, with nickel plated seat attachment, fine nickel plated flush and supply pipe, slip joint connection on flush pipe, and nickel plated chain and pull.

Price, as described.....\$11.75

No. 47. Same as above only bowl is embossed. Price.....\$12.25

No. 5-A-603.

## Water Closet Combination.

Consists of a first grade tall, round flush rim earthenware hopper, with a top supply, round cornered oak tank, and seat for attachment to the wall, with nickel plated flush pipe, rubber elbow connection, floor screws, etc.

Price.....\$7.75

No. 5-A-604.

## Water Closet Combination.

Exactly the same as 108 Combination, except that the bowl is a tall oval

Price.....\$10.50

No. 5-A-605.

## Water Closet Combination.

Consists of a short round loose hopper and trap bowl (strictly first grade) with gasket and clamps for clamping the bowl and trap together, with a square seat attached to the wall, with neatly turned wooden legs, and with round cornered oak tank (top supply), nickel plated flush pipe and rubber elbow connection.

Price....\$9.50

No. 5-A-606.

## Water Closet Combination.

Consists of a short, oval loose hopper and trap bowl (first grade), with gasket and clamps, same as above, the rest of the trimmings exactly as No. 110 combination. See cut of No. 110 combination.

Price.....\$10.00

No. 5-A-607.

## WASHOUT COMBINATION.

Consists of plain front washout closet bowl with trap vent; with copper lined polished hardwood tank with brackets; polished hardwood seat with back and brackets to fasten to the wall. Nickel plated flush and supply pipes, slip joint elbow connection, floor screws, chain and pull.

Price, complete

\$11.00

If without vent trap

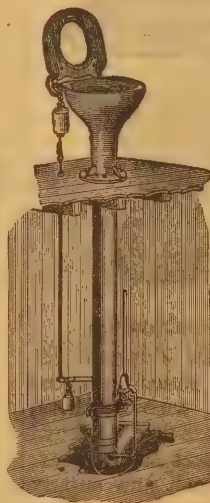
\$10.75



No. 5-A-608.

## Frost Proof Water Closet Combination.

Consists of a vitreous earthen, flush rim hopper, with an oak self raising seat, frost proof valve, iron rod to open valve when seat is down, 5 ft. length of cast iron waste pipe, 1/2 "S" cast iron trap tapped for drain pipe from the valve. Price, complete as described \$11.00

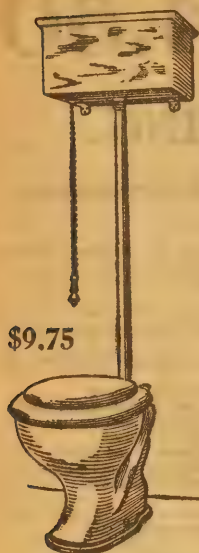


The drain pipe from the trap to the valve is not included in the above price. Nor is the lead supply pipe from the valve to the closet bowl included in this. We will furnish complete all iron pipe threads at, extra.....\$1.50

For bottom supply tank and an iron supply pipe, for our bargain combination, add Net \$0.50  
For nickel plated supply pipe, add Net.....\$1.00



## Bargain Closet Combinations



\$9.75

No. 5-A-685.

### WATER CLOSET COMBINATION.

Consists of syphon jet porcelain closet bowl (bowl defective in some way but guaranteed as to action), hardwood seat and tank, oak finish, seat for attaching to the bowl. Nickel plated flush pipe, brackets, chain and pull, floor screws, etc. Tank complete with all trimmings. Top supply unless otherwise specified. Price, as described...\$9.75

No. 5-A-685.

### WATER CLOSET COMBINATION.

Exactly the same as No. 5-A-685, except the seat is attached to the wall instead of to the bowl. Price, as described...\$9.25

No. 103.

### WATER CLOSET COMBINATION

Consists of syphon washdown closet bowl (the bowl defective in some way but guaranteed as to action), with hardwood seat, top supply oak tank, with nickel plated flush pipe and rubber elbow connection, brackets, chain and pull, floor screws, etc. Seat is for attachment to the wall. Price...\$9.00

No. 5-A-681.

### WATER CLOSET COMBINATION.

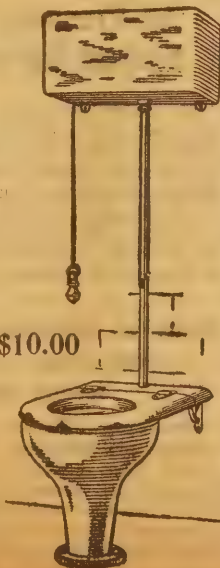
Exactly the same as No. 103 combination except the seat instead of attaching to the wall is attached directly to the bowl, bowl having seat lugs for this purpose. Price...\$9.25

No. 5-A-682.

### WATER CLOSET COMBINATION.

Consists of square combined hopper and trap bowl, with a square seat for attachment to the wall, with a hardwood tank, nickel plated chain and pull, nickel plated flush pipe with rubber elbow connection. The tank is top supply and the bowl is without trap vent. We furnish this complete with brackets, floor screws, etc.

\$10.00



Price...\$10.00

## PLUMBERS EARTHENWARE AND ENAMELED IRON HOPPERS, ETC.



Cut Showing Common Overflow for Metal Plug.



Cut Showing Patent Overflow for Metal Plug.



Cut Showing No Overflow for Metal Plug.



Cut Showing Patent Overflow for Rubber Plug.

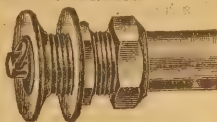
5-A-686.

### Basin Bowls

Vitreous Porcelain Ware.  
All Brand New.

### BASIN BOWLS.

	1st Grade each	2d Grade each		1st Grade each	2d Grade each
14 inch No. 5-A-686 Overflow, Metal Plug	\$0.50	\$0.40	15 x 19 Patent Overflow, Metal Plug	\$2.00	1.60
14 inch Common "	.50	.40	15 x 19 Patent " Rubber "	2.25	1.80
14 inch Patent "	.65	.50	16 x 21 No " Metal "	1.90	1.50
14 inch Patent " Rubber "	.75	.60	16 x 22 No " " "	3.50	2.80
14 x 17 No " Metal "	.95	.75	" " " " " " " " " " " "		
14 x 17 Common " " "	1.25	1.00	16 x 21 Patent Overflow, Metal Plug straight back	3.50	2.80
14 x 17 Patent " " "	1.50	1.20	15 x 19 Patent Overflow, Metal Plug straight back	3.00	2.40
14 x 17 Patent " Rubber "	1.75	1.40			
15 x 19 No " Metal "	1.25	1.00			
15 x 19 Common " " "	2.00	1.00			



New Metal Plugs, with Rubber Stoppers. Each, 50c  
We can furnish anything in the plumbing line you may need.

### METAL PLUGS

### Syphon Jet Closet Bowls, only \$4.25.

5-A-674.

No. 5-A-674—

Syphon

Jet Closet

Bowls with

lugs for attach-

ing seat cast

right on bowl

with 1 1/2" thread

for high tank

closet. We

furnish these

bowls in three

grades, prices

as follows:

First Grade, each	\$10.00
Second Grade, each	7.00
Third Grade, each	4.25
Above prices do not include seat. If 2" thread for low down tank is desired, add .25c	



### Syphon Washdown Closet Bowls, only \$2.00.

No. 5-A-675—

Syphon

Washdown

Closet

Bowls with

lugs for attach-

ing seat cast

right on bowl

with 1 1/2" thread

for high tank

closet. We

furnish these

bowls in three

grades, prices

as follows:

First Grade, each	\$4.50
Second Grade, each	3.50
Third Grade, each	2.00
Above prices do not include seat. If 2" thread for low down tank is desired, add .25c	



### 5-A-677, Washout Closet Bowls, only \$2.25.



Vitreous Earthenware, Front washout Closet Bowl without lugs for seat attachment. Price:

First Grade,	\$4.25.
Second Grade,	\$3.45.
Third Grade,	\$2.25.

If lugs for seat attached are desired, we can furnish bowl with these cast on

back at an additional cost of 25c. If trap vent is desired on back, we can furnish same at additional cost of 20c.

### 5-A-683, Loose Hopper and Trap.

We have on hand 300 brand new, short oval flush rim hoppers, with loose earthen trap.

First Grade,	\$2.80
Second Grade,	\$2.50

(Price includes spuds.)  
Prices on These Bowls Do Not Include Seats

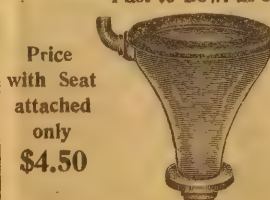


5-A-676.

### Vitreous Earthenware Oval Hoppers, only \$2.50.

Tall Oval Earthen Hoppers, First Grade \$2.50.

### Cast Iron Hoppers with Wooden Seats Bolted Fast to Bowl as shown.



Price with Seat attached only \$4.50

1 1/2 inch flush connection. Simple, compact, sanitary. Cannot get out of order. Just the kind for factories, etc. Least liable to get broken or stopped up of any bowl on the market. White

enameled inside, painted red outside, brand new and perfect. Price, each as described, only \$4.50

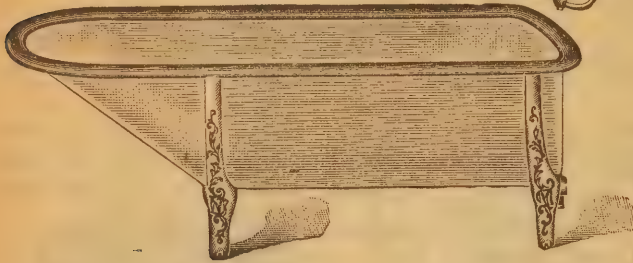
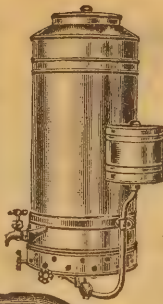
Plain Cast Iron Philadelphia Hoppers without seat, enameled inside, painted outside. Brand new, each, only \$1.50



# Combination Bath Room Outfit, Only \$14.50

## THINK OF IT!

All the conveniences of a modern bath room for an investment of only **\$14.50**



## FIT FOR A KING.

**THE CLEVEREST LITTLE COMBINATION ON THE MARKET.**  
Entirely self contained.

Hot Water always ready just when you want it.

Heats enough water for bath in 10 minutes.

No further expense attached to this outfit, simply set in place, fill the heater with water and it is ready for use. No plumbing whatever.

No range, boiler, stove connection or expensive piping system necessary.

Burns gas, gasoline or oil. Portable, light and easily handled.

Just the Outfit for anyone not wishing to go to undue expense to fit up a bath room.

The waste water can be very easily arranged to run out of doors with a hose connection.

Suitable for the handsomest mansion or the humblest cottage.

The tub is made of 24 gauge galvanized steel, enameled white on the inside and blue outside. Relieved in gold and fully guaranteed.

We also furnish the tub in white metal lining, nickel plated.

All Outfits supplied with 5½ foot Tub, unless otherwise specified.

Our water heater No. 10 as shown above is made of 24 gauge galvanized steel with copper coil and heat flue arranged at bottom of heater.

The capacity of heater is about 14 gallons.

We also furnish heater No. 11 same dimensions as No. 10 with white metal, nickel plated jacket on outside. Prices within reach of all.

### PRICE LIST:

Price, with 5½ Foot Steel Enameled Bath Tub, with No. 10 Galvanized Steel Heater.....

**\$14.50**

Price, with 5½ Foot Nickel-Plated Bath Tub, with No. 11 Nickel-Plated Heater.....

**\$17.50**

Chicago House Wrecking Co., Chicago, Ill.

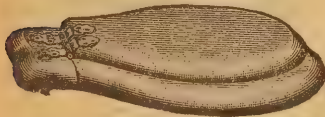
Gentlemen:—We want to write you that we are more than pleased with Combination No. 5.

We have the most beautiful home in the vicinity; everything came true to your guarantee.

Mrs. J. R. Head, Bainbridge, Ohio.

### WOODWORK.

All new, nicely polished, Natural, Antique or Golden Oak.



No. 5-A-644.

Seat for attaching to bowl. Any finish. Price \$1.75



No. 5-A-645.

Seat for attaching to bowl. Nickel plated hinges and attachments

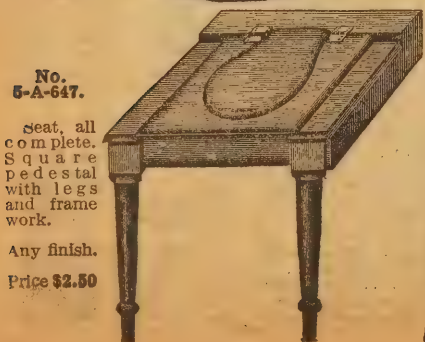
Any finish. Price.....\$2.00



No. 5-A-646.

Pedestal seat for attaching to wall. Any finish.

Price \$2.25



No. 5-A-647.

Seat, all complete. Square pedestal with legs and frame work.

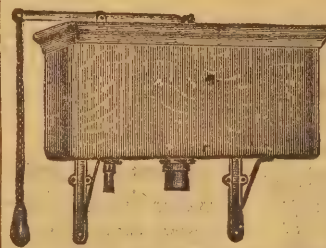
Any finish.

Price \$2.50

## Put a Modern Hot Water Heating Plant in Your Home.

Send us a sketch of your house design. Write for our information blanks. They will tell you the exact information we require to make you a complete proposition, and if you will mail us in these sketches, we can figure out a heating plant for you that we will guarantee to give you absolute satisfaction in every way. We can make you a price on a modern hot water heating system of this kind, that will beat anything that can possibly be secured elsewhere in the country.

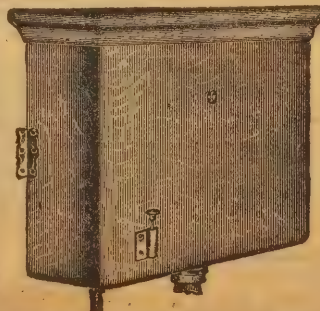
Remember, we furnish the highest grade apparatus on the market at any price. We furnish you complete blue print plans and detail instructions covering every point, so that you cannot possibly go wrong and by purchasing this material direct from us, cutting the plumbers profit entirely, as we loan you all necessary tools to install the material, free of charge, you can save anywhere from 30 to 50%. Now is the time to order a heating plant. Write at once. Do not delay a moment.



Small size for washout or washdown bowls, each.....\$3.50  
Large size for Siphon Jet bowls, each.....4.00  
Extra for lead lined, each.....0.50

No. 5-A-649.

For low tank combination. Piano Polish. Round corner, top moulding, copper lined, nickel plated push button action, nickel plated supply pipe and 2 inch connection. Complete with ball cock and all trimmings, each \$8.00  
Extra for lead lined.....0.75



No. 5-A-648.

Tank Cop. lined, with moulding, galvanized siphon. Complete with ball cock and all trimmings. Either for top or bottom supply.

## Let us make you a complete proposition on a modern Air Pressure Water Supply System for your home.

We can furnish you with the most modern and up-to-date systems in existence. We are fully in position to quote you on practically any size outfit you may require, either gasoline engine or electric motor driven, and every outfit is absolutely guaranteed to give perfect satisfaction in every way. Why not install one of these modern systems? You will have all the convenience of a modern city residence in your country home.

## Water in abundance at any point in your house. Absolute protection from fire.

Prices smashed to pieces. We can furnish you an outfit from \$48.00 up. Complete plans and instructions sent with every outfit. Write at once for particulars. Send us a sketch of your premises or give us some information in regard to your requirements. We will be glad to line up an outfit for you that we will guarantee to give you absolute satisfaction at a very low price.



# Washout Closet Ranges for Schools, Factories, Etc.

Brand New Closet Ranges for Factories, Schools, etc., exceptional bargains, complete five-range outfit, flushing tank, all fittings, brand new seats, only ..... \$60.00

We can furnish these ranges in any number of seats, more or less than shown in the illustration.

Our No. 5-A-710 Syphon Eduction Closet Ranges, consists of Brand New Automatic Flushing Tank, copper lined, of 20 or 30 gallon capacity, depending upon the size range you order. These are high grade tanks, lined with extra heavy tinned copper, very substantial. The flushing device is the best on the market. They are made up of short porcelain flush rim hoppers with the necessary soil pipe and soil pipe fittings, clamps, calking lead, oakum, flush pipes, traps, etc., with plain square seats and hinged tops. Each seat is furnished with a pair of turned wooden legs to make up as shown in the illustration. Everything complete in this outfit as shown, with the exception of the 2x4" support which will be necessary to hold all seats together.

No. 5-A-710. Price for five-seat range as described, only ..... \$60.00

If more or less seats are desired, add or deduct \$7.00 per seat.

## Flush Tank Entirely Automatic

The Flush Tank on these closets can be connected so that the flush occurs at from every five minutes to an hour. The outfits are so made that part of the water is always retained in the bottom of the hoppers, as will readily be understood by carefully examining the illustration. Note that there is an inverted trap at the end, which maintains a water seal in the entire line of soil pipe underneath the closet bowls, and the connections are so made that part of the water is carried along a 2 inch flushing pipe in the back of closets to which the connection is made to these closets, and part of the water also flows directly into the end of the soil pipe, as shown, causing a very strong flushing action. Connection is made to these bowls with a flexible rubber connection so that any vibration or jarring in the factory on account of heavy machinery, etc., that may be running will not affect the connections and cause them to leak. These flexible joints being permitted to give and take without affecting the connections in any way.

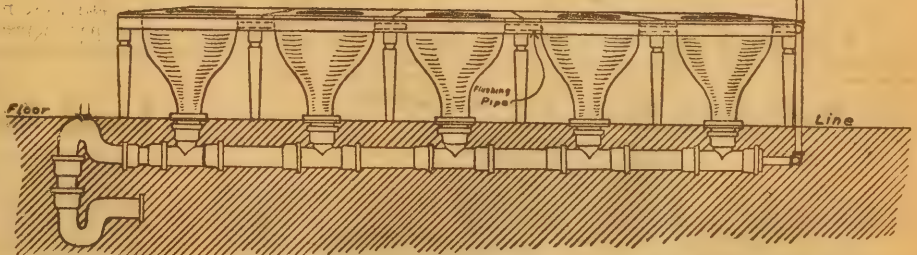
It is understood that we do not furnish the 2x4 inch scantling on which all seats are supported. This can easily be purchased locally.

This outfit is without any question one of the best outfits you could possibly install in any large factory or school building. It is bound to give you absolute satisfaction. We have sold thousands of these outfits and guarantee results. We have a limited number of these left and it would be well to order as early as possible.

## Plain Hopper Closet Range

Outfit No. 5-A-711.

We can furnish a complete outfit with plain hopper closets as shown in illustration. This outfit being exactly similar to our No. 5-A-710 outfit described in the above in any number of seats at the same price. In ordering, state whether you prefer the hopper with the pipe underneath the floor or if you want the short hopper as shown in our No. 5-A-710 outfit.



## Continuous Cast Iron Closet Ranges

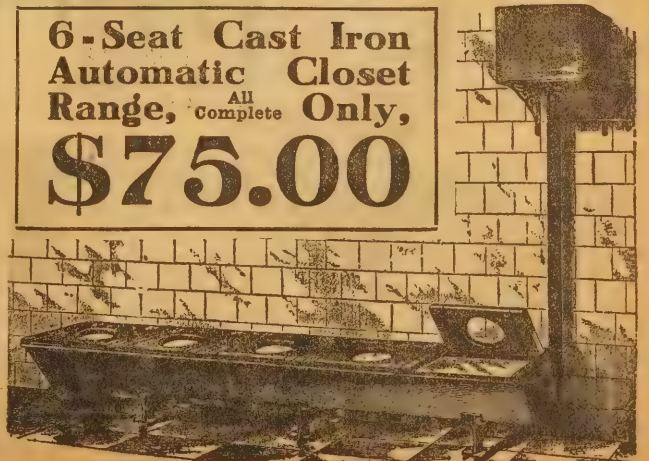
We have on hand at the present time a limited number of good sound second hand cast iron washout closet ranges which we secured in connection with the dismantling of one of the largest Educational Institutions in Chicago. These ranges, owing to the exceptional care which they received while installed, are practically as good as brand new in every way. We have every part of them intact and will furnish them complete while they last at these prices.

If you can find a place to use one of these ranges, now is the time to act. Remember, we only have a limited number left and they are all listed, subject to prompt acceptance and prior sale. If interested, wire or write us at once and we will tag an outfit for you and withdraw it from sale. We have these outfits in two sizes: six-seat and eight-seat. They are furnished complete with cast iron white enamel automatic flush tanks of proper size to take care of the range, flush pipe connections, all necessary attachments, cast iron legs and seat and cast iron partitions between each seat.

No. 5-A-712. Price for 8-seat closet range as described, guaranteed to work perfectly and practically as good as new, per outfit ..... \$100.00

No. 5-A-713. Price for 6-seat range as described ..... \$75.00

**6-Seat Cast Iron  
Automatic Closet  
Range, <sup>All</sup> Complete Only,  
\$75.00**





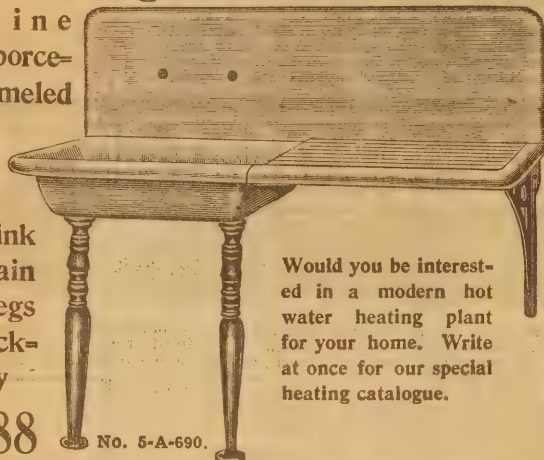
# Roll-Rim Kitchen Sinks With Drain Boards

Put one of these modern roll-rim sinks in your kitchen. Clean and Sanitary, no enclosed plumbing work. No up-to-date kitchen should be without a sink of this kind. Remember, we can provide all connections with iron pipe threads so that you will not be dependent upon your plumber in the least. You can put the sink in yourself or get some handy mechanic and we will instruct you fully just how the connections should be made. One afternoon's work will do the entire job. Note the low prices at which we can offer you one of these elegant sinks; less than half of what your plumber would charge you. Note that these sinks are all absolutely brand new, having never seen any service whatever. Also note that we can furnish these sinks in "A" or "B" grade sinks. "A" grade sinks are absolutely perfect and free from defects in the enamel or imperfections of any kind. The "B" grade sinks are brand new sinks which have been slightly damaged in shipping. The enamel will be chipped out at some points, but the defective places will be carefully repaired in our enameling room so that it will be scarcely noticeable. In ordering be sure to state which quality you wish us to ship you, "A" or "B" grade.

## Long Back Sink

Genuine white porcelain enameled roll-rim, long back sink with drain board, legs and brackets, only

**\$15.88**



Would you be interested in a modern hot water heating plant for your home. Write at once for our special heating catalogue.

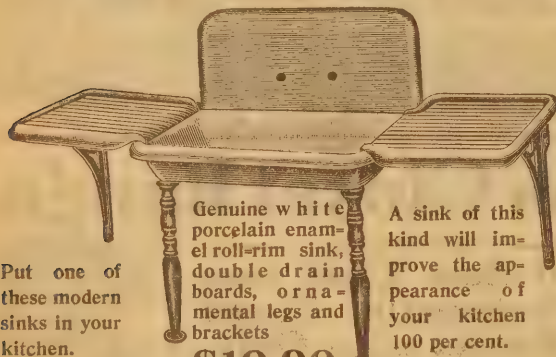
No. 5-A-690.

Genuine white porcelain enameled roll-rim sink on bronzed cast iron legs with 15" high roll-rim back extended over the drain board, concealed galvanized iron air chamber, nickel-plated strainer, 24" right or left hand porcelain enameled drain board on bronzed cast iron brackets.

Size	Price "A" Grade	Price "B" Grade
18 x 30.....	\$17.88	\$15.88
20 x 30.....	16.56	14.56
20 x 36.....	18.24	16.24
20 x 40.....	19.68	17.68

The above prices do not include faucets or trap. These will come extra at the net prices as given in this book elsewhere. We can also furnish the trap with iron pipe connection if desired.

## Roll-Rim Sink With Back and Double Drain Boards



Put one of these modern sinks in your kitchen.

Genuine white porcelain enameled roll-rim sink, double drain boards, ornamental legs and brackets

A sink of this kind will improve the appearance of your kitchen 100 per cent.

**\$10.90**

No. 5-A-564. Genuine white enameled roll-rim kitchen sinks on bronzed cast iron legs with 15" high back, 24" deep roll-rim, concealed galvanized iron air chambers, nickel-plated brass strainer, 2 inter-changeable roll-rim ribbed porcelain enameled cast iron drain boards on bronzed heavy cast iron brackets.

Size	Price "A" Grade	Price "B" Grade
18 x 30.....	\$12.90	\$10.90
20 x 30.....	13.86	11.86
20 x 36.....	15.06	13.06
20 x 40.....	15.78	13.78

The above prices do not include faucets or trap. These will come extra at the net prices as given elsewhere in this book. We can also furnish the trap with iron pipe connection if desired.

## Long Back Sink With End Piece

Roll-rim kitchen sink with drain board and corner piece

**\$16.42**



Remember we instruct you fully how to install your material. Nothing difficult about it.

No. 5-A-691.

Genuine white porcelain enameled roll-rim sink on bronzed legs with 15" high roll-rim back extended over drain board, concealed galvanized iron air chamber, N. P. brass strainer, 24" white porcelain drain board with end pieces.

Size	Price "A" Grade	Price "B" Grade
18 x 30.....	\$18.42	\$16.42
20 x 30.....	19.30	17.30
20 x 36.....	20.02	18.00
20 x 40.....	21.42	19.40

The above prices do not include faucets or trap. These will come extra at the net prices as given in this book elsewhere. We can also furnish the trap with iron pipe connection if desired.

## Long Back Sink With Double Drain Boards



We loan you tools.

Enameled iron long back sink, double drain board

We make your plans.

**\$14.68**

No. 5-A-569. Long back, roll-rim genuine white porcelain enameled sink on bronzed legs, 15" high back, roll-rim back extended over the drain boards, concealed galvanized iron air chamber, 18" ash drain boards on bronzed cast iron brackets.

Size	Price "A" Grade	Price "B" Grade
18 x 30.....	\$16.68	\$14.68
18 x 36.....	17.52	17.56
20 x 30.....	19.66	18.52
20 x 36.....	19.38	17.38
20 x 40.....	19.98	17.98

The above prices do not include faucets or trap. These will come extra at the net prices as given elsewhere in this book. We can also furnish the trap with iron pipe connection if desired.

**WHAT WE NEED TO KNOW!**

**WE CAN FIGURE YOUR COMPLETE PLUMBING SYSTEM FOR YOU.** If you do not know the fittings you want, send us a rough sketch showing where you wish to place the sink or bathroom fixtures. Let us know especially if the kitchen is located directly under the bathroom on the second floor. If so, we can furnish you your outfit cheaper than we could if it were necessary to use a separate pipe for the sink.

Let us know what fixtures you want us to furnish you, giving our catalog numbers and we will line up a complete specification for you and will make you a very interesting proposition on the entire outfit by return mail.



# Cast Iron Enameled Roll Rim Sinks

**Porcelain Enameled Cast Iron Roll Rim Sinks, \$6.00**

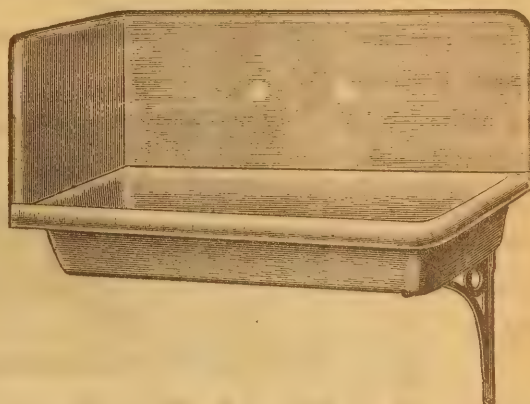


**No. 5-A-565.** Genuine White Porcelain Enameled Roll Rim Sink, with bronze cast-iron brackets, 15" high back, 2½" inch deep roll rim, with sealed galvanized iron air chambers and nickel-plated brass strainer.

Sizes.	A Grade.	B Grade.
18"x24"	\$ 6.00	\$4.50
18"x30"	7.02	5.52
18"x36"	7.50	6.00
20"x30"	8.70	7.20
20"x36"	9.42	7.92
20"x40"	11.14	9.64

The above prices do not include faucet or trap. These will come extra at our regular net price, as given elsewhere in this catalogue.

**Cast Iron Porcelain Enameled Roll Rim Kitchen Sinks, with Corner Piece \$8.73**



**No. 5-A-566.** Genuine White Porcelain Enameled Roll Rim Sink, with bronze iron brackets, 15" high back, 2½" deep roll rim, right or left hand end piece, sealed galvanized iron air chambers, and nickel-plated brass strainer.

Sizes.	A Grade.	B Grade.
18"x24"	\$ 8.73	\$7.23
18"x30"	10.07	8.57
18"x36"	9.52	8.02
20"x30"	10.37	8.87
20"x36"	11.40	9.90
20"x40"	12.50	11.00

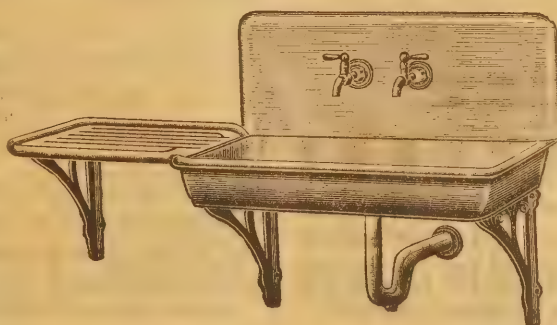
## Enameled Iron Roll Rim Sinks with Reversible Drain Boards.

### Sink Brackets.

**No. 5-A-624.** Heavy Cast-iron Sink Brackets. Strong and substantial.

Price, per pair,

**30c**



**Interchangeable Drain Boards, \$2.75.**

**No. 5-A-625.** Interchangeable Enam-  
eled Iron Drain Board, 18x24, with  
bronzed cast iron Bracket, only.....\$2.75

**No. 5-A-627.** 20x24, with bronzed  
cast-iron bracket.....\$2.98



Write for our  
Heating Catalog.

### WHITE ENAMELED CAST IRON SINK AND DETACHABLE DRAIN BOARD.

Drain Board is Reversible and can be used on Either End.

**No. K39.** Heavy Roll Rim Sink. Drain Board and Back. The outfit includes a white porcelain enameled cast-iron sink with 15" roll rim enameled iron back and reversible cast-iron enameled grooved drain board, Two heavily nickel-plated Fuller flanged bibbs, for hot and cold water, nickel-plated strainer sink bolts and collar for attaching the trap, and "P" trap, two ornamental cast-iron brackets for the sink, and one for the drain board. The drain board is 24" long, and is made with lugs to bolt securely to the bracket.

Sizes.	Price.	Sizes.	Price.
18"x30"	\$12.00	20"x36"	\$14.00
18"x36"	13.00	20"x40"	15.00
20"x30"	13.00		

Above Sinks with two ornamental bronzed legs for the sink and one bracket for the drain board. Net extra, \$1.00

GET OUR SPECIAL HEATING CATALOG. IT'S VALUABLE.

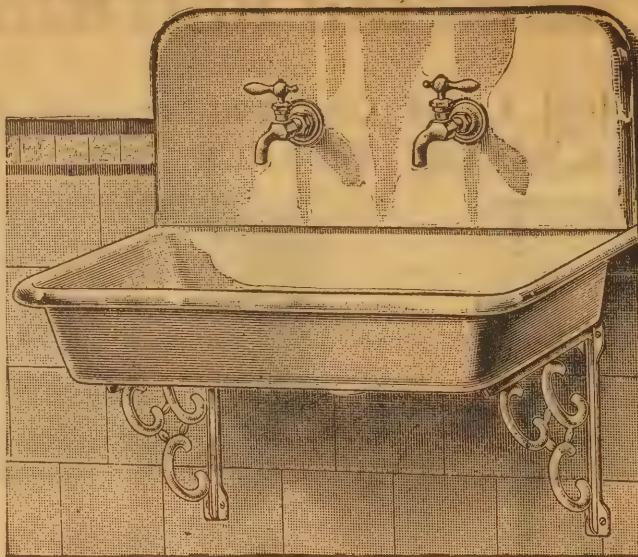


# WROUGHT STEEL ENAMELED ROLL RIM SINKS

## SPECIAL BARGAIN OFFER

We have purchased at a recent Receivers' Sale an entire job lot of Roll Rim Enameled Kitchen Sinks.

Note the very low prices at which we are offering them.



**No. 5-A-572.** Wrought Steel Enameled Roll Rim Kitchen Sinks, as shown in illustration, complete with Fuller Flanged Faucets, Ornamental Brackets, Strainer, Trap Collar, Belts, etc. These sinks are brand new, enameled inside and outside, and are furnished in four different colors of enamel. In quality these sinks are Class B, with some very slight defects, properly repaired. The colors run as follows:

Blue inside and outside.

Agate inside and gray outside.

Crystal inside, light gray outside.

White inside, blue outside.

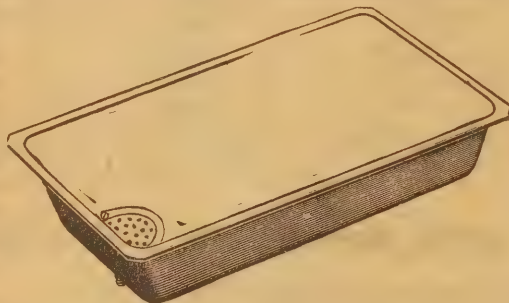
Prices as follows:

Sizes.	Blue.	Agate.	Crystal.	White.
16x24...	\$3.75	\$4.10	\$4.25	\$5.10
18x30...	4.20	4.50	4.65	5.50
18x36...	4.65	4.95	5.10	6.00
20x30...	4.65	4.95	5.10	6.00
20x36...	4.85	5.15	5.30	6.30
20x40...	5.50	5.80	5.95	6.95

## Wrought Steel Kitchen Sinks, Absolutely New Material.

We purchased three carloads of them at manufacturer's sale. They are unquestionably superior to any cast-iron sink, being stronger, more durable and lighter. They are drawn from a single sheet of steel. They will not break from any cause whatever. Steel being less porous than cast iron, they are more sanitary. Their great elasticity also avoids the danger of breaking dishes. The sinks in this list are all heavily porcelain enameled, both inside and outside, except the galvanized. They are manufacturers' seconds, with some minor blemishes. They are all 6 inches in depth.

Note the very low price at which we are offering these sinks. Every one an exceptional bargain.



**LOT No. 1.**

Seamless wrought steel kitchen sinks, with flat edges.

**Heavily enameled both inside and out.**

All 6 Inches in Depth.

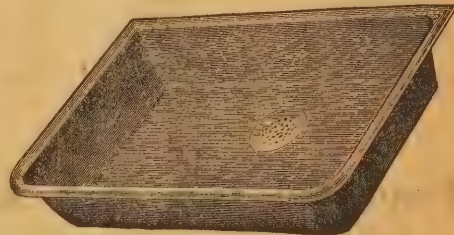
Width, inches...	16	18	18	18	20	20	20
Length, inches...	24	24	30	36	30	36	40
Blue Enameled inside and out...	\$0.70	\$0.80	\$0.90	\$1.10	\$1.10	\$1.23	\$1.47
Agate Enameled inside and out, (gray)	.90	1.00	1.10	1.30	1.30	1.43	1.67
Crystal Enameled inside and out (light gray)	.97	1.07	1.17	1.37	1.37	1.50	1.74
White Enameled inside and Blue Enameled outside...	1.40	1.50	1.60	1.80	1.80	1.94	2.17
Galvanized inside and outside...	.90	1.00	1.17	1.37	1.37	1.50	1.67

The above prices are for sinks, with cast iron couplings for lead pipe.

**ADD EXTRA PER SINK:**

If ordered for iron pipe connection	each	\$0.20
If ordered with rubber stoppers	each	.20
If ordered with rubber stoppers and detachable overflow grates	each	.37

These sink's are just as serviceable in every way as any cast iron sink and they will last just as long.



**LOT No. 61**

Seamless wrought steel kitchen sinks, with roll edges. (For use with brackets for exposed plumbing.)

**Heavily enameled both inside and outside.**

All 6 Inches in Depth.

Width, inches...	16	18	18	18	20	20	20
Length, inches...	24	24	30	36	30	36	40
Blue Enameled inside and out...	\$0.73	\$0.83	\$0.93	\$1.13	\$1.13	\$1.27	\$1.50
Agate Enameled inside and out (gray)	.93	1.03	1.13	1.33	1.33	1.47	1.70
Crystal Enameled inside and out (light gray)	1.00	1.10	1.20	1.40	1.40	1.53	1.77
White Enameled inside and Blue Enameled outside...	1.43	1.53	1.63	1.83	1.83	1.97	2.20
Galvanized inside and outside...	.95	1.05	1.20	1.40	1.40	1.53	1.70

The above prices are for sinks, with cast iron couplings for lead pipe.

**ADD EXTRA PER SINK:**

If ordered for iron pipe connection	each	\$0.20
If ordered with rubber stoppers	each	.20
If ordered with rubber stoppers and detachable overflow grates	each	.37

## Wrought Steel Sink Backs

We will furnish Heavy Enameled Seamless Backs for above Sinks, with 1 or 2 cock holes as follows:

Width, inches	20	24	30	36
Blue Enameled	\$0.38	\$0.44	\$0.52	\$0.64
Agate Enameled	.40	.46	.54	.67
Crystal Enameled	.44	.50	.58	.70
White Enameled	.60	.60	.70	.83
Galvanized	.45	.50	.58	.70

### BRACKETS.

We will furnish Cast-iron Brackets for Kitchen Sinks. Per pair, \$0.37  
Above sinks offered subject to prior sale. We may be out of certain sizes.



**No. 5-A-573**





Why Not Put  
One of These  
Modern Sinks in  
Your Kitchen.

Price  
only  
**\$16.88**

## Enameled Iron Roll-Rim Kitchen Sink. Right hand drain board and left hand corner piece, only **\$16.88**

Genuine White Porcelain Enameled Kitchen Sink on bronzed cast iron legs with 15 inch high back, roll-rim back extended over drain board. Left hand end bench, concealed galvanized iron air chambers; N. P. strainer. 2 inch porcelain enameled drain board on bronzed cast iron bracket.

	Size	Price "A" Grade	Price "B" Grade
No. 5-A-700.	18x30	\$18.12	\$16.88
No. 5-A-701.	20x30	19.00	17.00
No. 5-A-702.	20x36	19.68	17.68
No. 5-A-703.	20x40	21.12	19.12

Above prices do not include faucets or trap. These will come extra at the net prices as given elsewhere in this book.

We can also furnish the trap with iron pipe connections, if desired.

### WHITE ENAMELED CAST IRON SINK AND DETACHABLE DRAIN BOARD.

Price only  
**\$12.00**



Our Sinks Make your  
Housework a Pleasure.

Drain Board is Reversible and Can Be Used on Either End.

No. 5-A-699. White Enameled Sink.

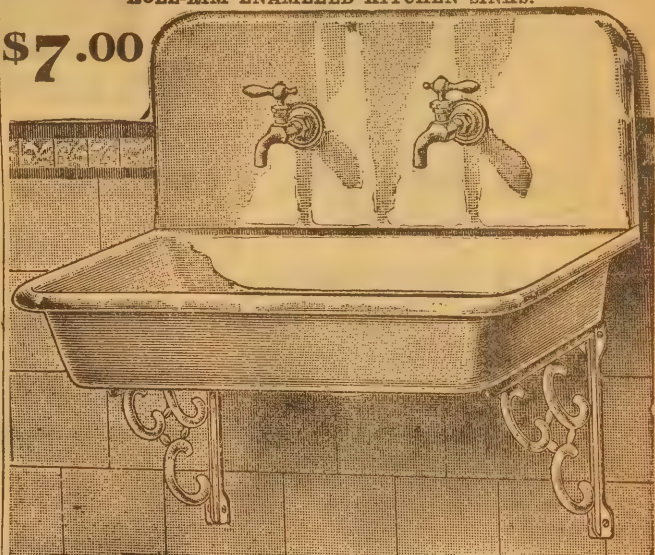
No. 5-A-699. Heavy roll rim Sink, Drain Board and Back. The outfit includes a white porcelain enameled cast iron sink with 15-inch roll rim enameled iron back and reversible cast iron enameled grooved drain board. Two heavily nickel plated Fuller flanged bibbs for hot and cold water, nickel plated strainer sink bolts and collar for attaching the trap, and "P" trap, two ornamental cast iron brackets for the sink, and one for the drain board. The drain board is 24 inches long, and is made with lugs to bolt securely to the bracket.

Size 18x30	Price \$12.00	Size 20x30	Price \$13.00
Size 18x36	Price 13.00	Size 20x36	Price 14.00
Size 18x36	Price 13.00	Size 20x40	Price 15.00

Above Sinks with two ornamental bronzed legs for the sink and one bracket for the drain board, Net extra. 1.00

### ROLL-RIM ENAMELED KITCHEN SINKS.

**\$7.00**

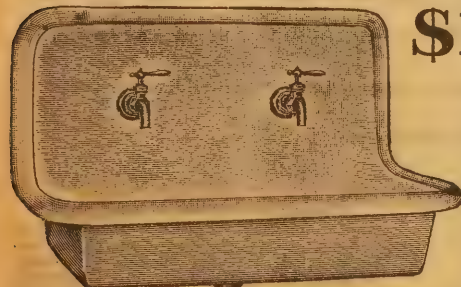


No. 5-A-698. Brand New White Enameled Roll-Rim Kitchen Sink with 15-inch back, heavy cast iron pipes and couplings, nickel-plated Fuller bibbs, nickel-plated brass strainer and improved iron brackets. They are class "B" enameled, that is, they have slight imperfections.

Cast Iron White Porcelain Enameled. Heavy Roll Rim.

18x24	\$ 7.00
18x30	8.00
20x30	9.00
20x36	10.00
20x40	11.00

One piece genuine porcelain  
enameled cast iron sink only  
**\$10.00**



After You Have  
Installed One of  
These Sinks in  
Your Home, You  
Will Wonder  
How You Man-  
aged Without a  
Good Sink So  
Long.

Cast iron enameled roll-rim kitchen sink. Entire back and body of sink cast in one solid piece. This is positively the most sanitary sink ever designed. No seams of any kind in its entire construction. Easy to keep clean, adds greatly to the appearance of your kitchen. We furnish this sink complete with two Nickel-Plated Fuller Flanged Bibbs, and one 1½ inch lead "P" trap to wall or "S" trap to floor.

No. 5-A-695. Size 20x30	\$10.00
No. 5-A-696. Size 20x36	13.00

Complete  
Kitchen  
Sink  
Outfit.

←PIPE TO ATTIC-TANK Price Com-  
plete, Only **\$7.50**



No. 5-A-697.

Complete Kitchen Sink Combination, including one of our special solid brass cylinder kitchen force pumps, suitable for drawing water from cistern and pumping it to sink or forcing it up into an attic tank. This sink is one of our 18x30 enameled cast iron flat rim sinks with roll-rim cast iron white porcelain enameled back, special Fuller flanged faucets, one long lead "S" trap to floor and one cast iron bracket to support same.

No. 5-A-697. Price for this outfit complete as described, only \$7.50



# Flat Rim Cast Iron Sinks

## WHITE PORCELAIN ENAMELED IRON KITCHEN SINKS

**No. 5-A-580.** Furnished with nickel plated strainer, sink bolts and collar for lead trap. B grade very slightly defective in enamel.

Sizes.	Price Each
16x24	\$1.50
18x24	1.65
18x30	2.00
18x36	2.25
20x24	2.10
20x30	2.50
20x36	2.60
20x40	3.00

### SINK BACKS.

**Roll Rim Sink Backs \$1.50**

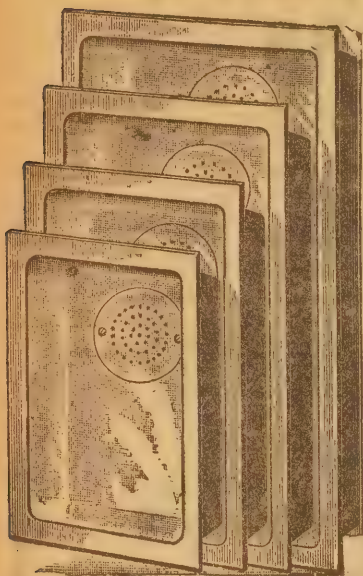


**No. 5-A-581.** Cast iron, roll rim, white porcelain enameled, brand new. Can be used with any style sink. Neat, clean and sanitary. Two cock-holes drilled.

Length, 24 inches. Each	\$1.50
Length, 30 inches. Each	1.75
Length, 36 inches. Each	2.00

Cast iron porcelain enameled end piece for roll rim sink, with miter corner to match roller and sink back, to bolt holes, corner for fastening.

Length	20 ins.	18 ins.
15 inches high, 24 inches deep	\$2.25	\$2.50
12 inches high, 24 inches deep	2.00	2.25



**Flat Rim Sinks \$1.50 Each**



**Price Only \$5.25**

### No. 5-A-584

Consists of enameled steel sink and back, with sink stand made of 2 inch iron pipe, with fittings to fasten to wall and floor as shown in illustration. This sink stand is very rigid, and absolutely sanitary. The outfit is furnished complete with finished brass Fuller flanged bibbs for hot and cold water, sink strainer, collar and bolts, lead "P" trap to wall, screws, etc.

### Prices.

Sizes	Blue.	Agate	White
16x24	\$5.25	\$5.50	\$5.25
18x30	5.50	5.75	6.50
18x36	5.60	5.90	6.75
20x30	5.60	5.90	6.75
20x36	5.75	6.10	7.00
20x40	6.00	6.25	7.25

Price of Sink Stands only as shown above.

For 16x24 sink	\$1.25
For 18x24 sink	1.25
For 18x30 sink	1.50
For 20x30 sink	1.60
For 18x36 sink	1.75
For 20x36 sink	1.85
For 20x40 sink	2.00

### PAINTED CAST IRON KITCHEN SINKS.

**No. K. 42.** With strainers, bolts and collars.

Sizes.	16x24	18x30	18x36	20x30	20x36	20x40
Price each	\$0.75	\$1.00	\$1.20	\$1.20	\$1.40	\$1.60

### PAINTED WROUGHT STEEL SEAMLESS KITCHEN SINKS.

**No. 5-A-583.** With strainers, bolts and collars.

Sizes.	16x24	18x30	18x36	20x30	20x36	20x40
Price, each	50c	60c	75c	75c	75c	\$1.00

### MISCELLANEOUS SINK BARGAINS.

We have in stock at this time a lot of Sinks from Underwriters' Sale that are considerably chipped. The castings are perfect but more or less of the enamel has been chipped on these sinks around the rim and sometimes around the outlet in the bottom. Or, there may be some sinks with the enamel practically perfect but with a corner of the rim broken off. They are all guaranteed not to leak. These sinks would be furnished with nickel plated strainer, sink bolts and collar.

We offer them in the following sizes: Lot No. D1.

18x24	\$1.10	20x24	\$1.40
18x30	1.25	20x30	1.50
18x36	1.40	20x36	1.75

We have in this same lot of material some Roll Rim Sinks and backs. Their condition is about the same as described for the Flat Rim Sinks above. We offer these as follows: Lot No. D2.

18x30 with back and brackets	\$5.00	20x30 with back and brackets	\$6.00
20x36 with back and brackets	\$7.00		

We will furnish with the above Sinks a pair of brass Fuller bibbs for iron pipe, and 1 1/2 inch lead "P" Trap for \$1.50 when ordered in connection with sink.

We have in these same lots some Enameled Drain-boards. These are interchangeable and can be hung over either end of the sink. They will fit either flat or roll rim sinks.

We are offering with these a bracket to support the drain-board, and a clamp to fasten the drain-board to the edge of the sink. We offer these at: Lot No. D3:

18" wide by 24" long	\$1.75	20" wide by 24" long	\$2.00
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We have in the same lot some Roll Rim White Enamel Kitchen Backs. They are generally damaged about as described above. Lot No. D4.

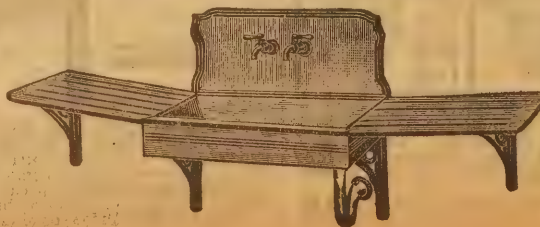
24 inches long	\$0.75	30 inches long	\$1.00
36 inches long			\$1.25

The Above Lot of Defective Material is Offered Subject to Prior Sale.

### ENAMELED STEEL PANTRY SINK.

#### No. 5-A-582.

The above Pantry Sink is equipped with a plug strainer and can be filled with water and the dishes washed in the sink itself, and then the water let out. We furnish the sink, the N. P. bibbs for hot and cold water, the sink back, two pairs of brackets, and the lead trap. We do not furnish the wooden frame or drain-boards.



Price outfit complete as listed above.

Size.	White Inside, Blue Outside.	Gray Enameled Inside and Outside.	Blue Enameled Inside and Outside.
14x20	\$6.00	\$5.50	\$5.25
16x20	6.50	6.00	5.75
16x24	6.75	6.25	6.00
18x24	7.00	6.50	6.25
18x30	7.50	7.00	6.75
18x36	8.00	7.50	7.25

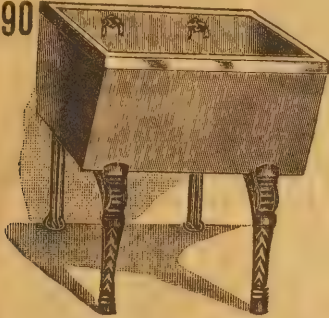


# Composition Stoneware Laundry Tubs.

Made in One Solid Piece.  
Strictly Sanitary and Indestructible.

## COMPOSITION STONEWARE LAUNDRY TUBS (Single.)

\$3.90



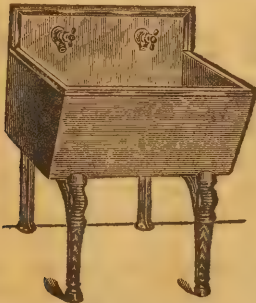
No. 5-A-280. These tubs are made of a composition of the very best grade of Portland Cement and Crushed Granite, and are moulded and made into one solid piece, with round corners, making them perfectly sanitary and easy to keep clean. They are stronger and harder than those made from stone. The strainers, plugs and waste connections are cast in the tub, doing away entirely with leaky connections. Each tub has a zinc rim, brass plug and waste connection and furnished complete with painted iron legs. Faucets are not included.

Length Inches	Width Inches	Depth Inches	Price Each
25.....	24.....	16.....	\$3.90
27.....	24.....	16.....	4.40
31.....	24.....	16.....	5.00

## COMPOSITION STONEWARE LAUNDRY TUBS.

(Single, with 6 Inch High Back.)

\$5.00



No. 5-A-281. All in one piece and furnished complete with patent zinc rims, brass plugs, strainer, overflows, waste connection and painted iron legs. Faucets are not included.

Length Inches	Width Inches	Depth Inches	Price Each
25.....	24.....	16.....	\$5.00
27.....	24.....	16.....	5.35
31.....	24.....	16.....	5.90

## LAUNDRY TUB BIBBS.

Neat and Compact.

We recommend that you include one hose bibb for each laundry tub to attach hose for sprinkling or for fire protection purposes:

No. 5-A-800.	1-inch Plain Laundry Bibb.	each, \$0.45
No. 5-A-801.	1-inch Hose Laundry Bibb.	each, \$0.50

## COMPOSITION STONEWARE LAUNDRY TUBS.



\$5.70

(2 Parts Without High Back.)

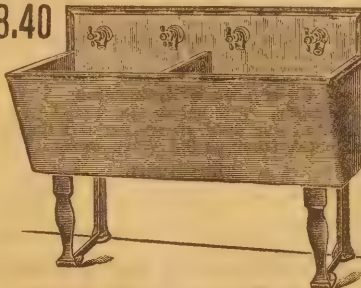
No. 5-A-282. These are furnished with zinc rims, brass plugs, strainer, overflow, waste connection, painted iron legs. Faucets not included.

Length In.	Width In.	Depth In.	Price
48.....	24.....	16.....	\$5.70
54.....	24.....	16.....	6.50
60.....	24.....	16.....	7.95

## COMPOSITION STONEWARE LAUNDRY TUBS.

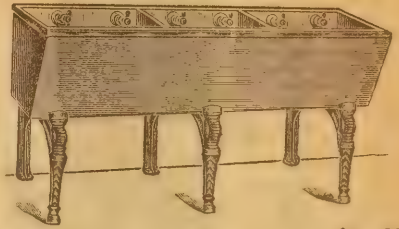
(2 Parts with 6 Inch High Back.)

\$8.40



No. 5-A-283. These are furnished with zinc rims, brass plugs, strainer, overflow, waste connection, painted iron legs. Faucets not included.

Length In.	Width In.	Depth In.	Price
48.....	24.....	16.....	\$ 8.40
54.....	24.....	16.....	9.75
60.....	24.....	16.....	10.50



(3 Parts without High Back.)

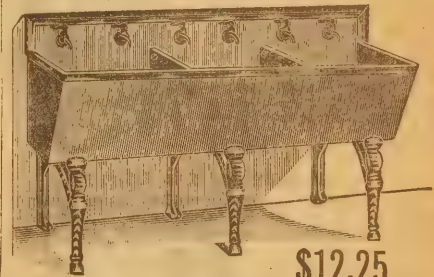
\$9.45

No. 5-A-284. These are furnished with zinc rims, brass plugs, strainer, overflow, waste connection, painted iron legs. Faucets not included.

Length Inches	Width Inches	Depth Inches	Price
72.....	24.....	16.....	\$ 9.45
80.....	24.....	16.....	10.65
90.....	24.....	16.....	11.25

Flanged Faucets for Laundry Tubs for 1/2 inch Iron pipe. Each..... 45

## COMPOSITION STONEWARE LAUNDRY TUBS.



\$12.25

(3 Parts with 6 Inch High Back.)

No. 5-A-285. These are furnished complete as illustrated above, except faucets.

Length Inches	Width Inches	Depth Inches	Price
72.....	24.....	16.....	\$12.25
80.....	24.....	16.....	15.00
90.....	24.....	16.....	15.25

## SOLID PORCELAIN LAUNDRY TUBS.

No. 5-A-673. These laundry tubs are positively the most substantial and durable make of laundry tubs on the market at the present time. This is a lot of tubs purchased at a recent receiver's sale and the prices that we are offering them does not represent half their actual value.

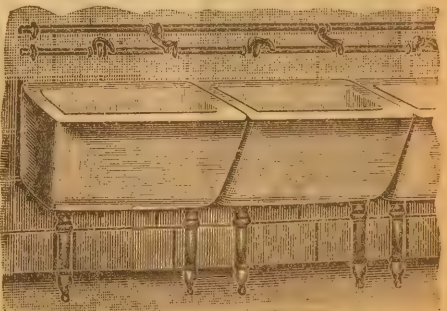
In quality these tubs are "B" grade with some very slight defect. They are white glazed inside and buff color outside. Size of tubs 24x24 and 16 inches deep inside.

If you want a good substantial tub for your laundry, here is the chance. Get two or three of these tubs, set them up in a battery, as shown in the illustration. They can be readily equipped with wooden covers and hinges as shown. While we do not furnish these wood trimmings it can be very easily rigged up after you get them in place. The accompanying illustration shows two methods of connecting these tubs up, each of which is very good.

We can furnish the tubs with either ornamental galvanized iron legs as shown in the cut on the right hand side, or we can furnish them with round cast iron legs, as shown above, whichever you desire. Each tub is fitted with waste plug and rubber stopper and one pair of flanged laundry tray faucets. Price for each tub as described, while they last, only..... \$ 7.00

Price for two-part tub as described, only..... 13.00

We also have several laundry tubs similar to the above, white glazed both inside and out, which we will sacrifice while they last at only \$10.00 per tub. These white glazed tubs are also "B" grade in quality. Write for detailed description if interested. We know you will be well satisfied.





**"PREMIER" GAS WATER HEATER.**

No. 5-A-266. We offer an economical and efficient gas water heater to be used in connection with Range Boilers. The water passing through a drawn, coiled copper tube, becomes thoroughly heated and passes through the top of heater and is discharged into the top of the boiler. These heaters are fitted with a ground joint brass connection and conical asbestos covered deflector, and lined with asbestos, which holds the heat around the coil. These Heaters are made for heating water with either natural or artificial gas. In ordering, please state the kind of gas used.

Heater is 8 inches diameter, 15 inches high, 2-inch tube, and can be connected to 30 to 40 gallon boiler to supply hot water to sink, bathroom, lavatory and laundry. Price furnished with planished iron jacket...\$4.20

**"PERFECTION" NICKEL PLATED GASOLINE WATER HEATER.**

No. 5-A-264. This Heater is made of No. 24 gauge galvanized iron with white metal nickel plated jacket on the outside. 12 inches in diameter and 28 inches high. Capacity about 14 gallons. Copper coil and heat flues arranged at bottom of heater. Will heat water sufficient for bath in about 15 minutes. Shipping weight about 40 lbs. Shipped direct from factory in Southern Michigan. Price each.....\$8.25

**GASOLINE WATER HEATER.**

No. 5-A-264. is a Galvanized Iron Heater with double burner and circulating copper coil. Reservoir holds 15 gallons of water and is so arranged that when the burners are lighted the water circulates through the coil and over the burners and as it is heated rises back into the reservoir above. The water is drawn off through the faucet and as the faucet is directly connected with the heating coil it is practically an instantaneous heater. It is so made that all the water cannot be drawn out and consequently the coil and the bottom cannot be burned out. Will heat the full reservoir of 15 gallons boiling hot in about 20 minutes. Price crated for shipment.....\$12.50

**RANGE BOILER COUPLINGS (Galvanized.)**

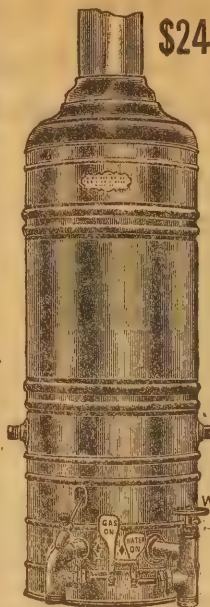
No. 5-A-271. For Iron Pipe Connections. Price per set, \$0.65

**RANGE BOILER COUPLINGS. (Brass.)**

No. 5-A-272. For Lead Pipe Connections. Price per set.....\$0.90

**INSTANTANEOUS WATER HEATER.**

(For Gas.)



\$24

WATER REGULATOR

No. 5-A-273. It is the most simple and perfectly constructed heater of its kind ever produced, and has a larger heating surface, in proportion to its dimensions, than any other heater of similar character of construction. The result is obtained by allowing the ascending high products of combustion of the gas to mingle with the downward going water thereby extracting all the heat from the gas and there is no waste of heat as the products of combustion leaves the heater cold. This heater can be connected direct to your water supply and will heat two or three gallons per minute to a temperature of 100 degrees. The jacket is made of sheet copper, heavily nickel plated and highly polished.

**Dimensions.**

Diameter.....11 inches  
Height.....28 inches  
Shipping Weight.....65 lbs.

Furnished complete with nickel plated shelf and brackets, safety pilot lock, one outlet, valves and unions. Price each.....\$24.00  
When ordering be sure and state whether heater is for artificial or natural gas.

**INSTANTANEOUS WATER HEATER**

To be Used With Gasoline.

No. 5-A-274. This heater is designed to connect direct to your water supply, and is of the same general construction as the above heater.

**Dimensions.**

Diameter.....12 inches  
Height.....31 inches  
Shipping Weight.....60 lbs.  
Capacity 1 1/2 to 2 gallons per minute to a temperature of 100 degrees.  
Price with nickel plated shelf, brackets, etc. \$28.75

**GALVANIZED STANDARD RANGE BOILERS.**

Complete with Stand, Tube and Couplings.

Guaranteed full weight, extra well riveted and to be the best Standard Range Boiler possible to secure. They are tested 200 pounds pressure, maximum working pressure 85 pounds and guaranteed for one year.

No.	Cap. Gals.	Ht. In.	Wt. Lbs.	Price
No. 5-A-802	24	48	67	\$5.25
No. 5-A-803	30	60	75	5.75
No. 5-A-804	35	60	87	6.25
No. 5-A-805	40	60	96	6.95
No. 5-A-806	52	60	137	12.75
No. 5-A-807	63	72	166	17.75

If required, we will furnish brass, lead or iron pipe connections at an additional charge of 20c.

**GALVANIZED STANDARD RANGE BOILERS.**

Tested 200 pounds, maximum working pressure 85 pounds. Guaranteed for one year.

Prices quoted are for boilers only.

No.	Capacity Gallons	Height Inches	Size	Price
No. 5-A-808	12	37	3 ft.x10 in.	\$4.30
No. 5-A-809	18	47	3 ft.x12 in.	4.75
No. 5-A-810	24	57	4 ft.x12 in.	4.75
No. 5-A-811	30	72	5 ft.x12 in.	4.75
No. 5-A-812	35	76	5 ft.x13 in.	5.10
No. 5-A-813	40	85	5 ft.x14 in.	5.80
No. 5-A-814	52	119	5 ft.x16 in.	10.35
No. 5-A-815	63	146	6 ft.x16 in.	16.20
No. 5-A-816	82	192	5 ft.x20 in.	18.25
No. 5-A-817	100	200	5 ft.x22 in.	27.00

**EXTRA HEAVY GALVANIZED RANGE BOILERS.**

Tested 250 Pounds.

Guaranteed for 3 Years at 150 Pounds Maximum Working Pressure.

These boilers are brazed with copper in addition to being riveted and are recommended for use where there is a high pressure water system. In many of the cities where the nominal pressure ranges from 40 to 60 pounds, there are occasions where a very much heavier pressure is used. If your water works pressure is in excess of 85 pounds at any time, you require an extra heavy boiler which is made of heavier steel and is more closely riveted than the standard boilers.

Prices Below Quoted are for the Boilers Only.

No.	Cap. Gals.	Size	Price
No. 5-A-818	30	5 ft.x12 in.	\$6.65
No. 5-A-819	40	5 ft.x14 in.	8.95
No. 5-A-820	52	5 ft.x16 in.	12.90

**LEAD PIPE CONNECTIONS FROM BOILER TO RANGE.**

No. 5-A-269. By using lead pipe boiler connections the job of connecting a range to boiler is much simplified, that is one long flow from bottom of boiler to lower opening of water front, and one from upper opening in water front to opening in the side of the boiler. The lead pipe will easily bend and the balance of the distance can be filled with 1/2 inch iron pipe. Price per set of 2.....\$2.00

**STANDS FOR RANGE BOILERS**

No. 5-A-270. Made of the best quality gray cast iron, strongest and best boiler stand manufactured.



Diameter Inches	Price Each
12	\$0.45
13	.46
14	.47
16	1.10
20	1.20
22	1.65

**FITTINGS TO BE USED IN CONNECTION WITH INSTANTANEOUS HEATERS.**

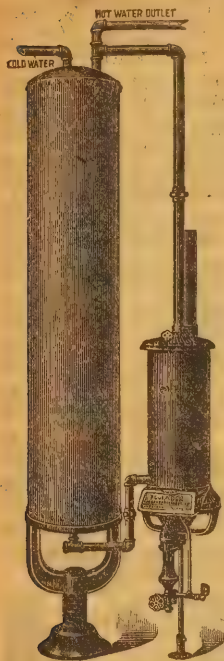
No. 5-A-275.	3 inch N. P. Vent Pipe in 28 inch lengths, per length.....	\$0.50
No. 5-A-276.	3 inch Extension Thimble with N. P. flanges on each end, 4 to 8 inch Extension.....	1.20
No. 5-A-277.	3 inch N. P. Elbows.....	.50
No. 5-A-278.	3 inch N. P. Vent Pipe Collars.....	.35
No. 5-A-279.	3 inch Ventilating Hood of galvanized iron, to be used where vent pipe terminates outside to prevent down draft. each.....	1.00

**WATER FRONTS.**

No. 5-A-263. We can furnish water fronts for almost any range that is manufactured. Most every range that is now manufactured has water fronts, but some of the old style ranges are made without water fronts and it is occasionally impossible for us to secure the front for these. The water front is used in connection with the range boiler. The water circulates through the pipes into the water front, which is fitted in the fire box of the range, and as it becomes heated it passes back into the range boiler, the constant circulation keeping the water in the boiler hot. The illustration shown is a cut of the water front used in most of the steel ranges without reservoirs. When ordering be sure and state name of stove, by whom it is manufactured and mention all numbers that show on the stove. Without this information we cannot furnish the fronts. On some makes of stoves and ranges the connections are made for both right or left hand. In ordering be sure and state which hand, and this can be determined by facing the range. If the holes for the water front are on the right hand side, right hand connections are required; if on the left hand side, left hand connections will be required. Price each.....\$6.00



## Reliable Circulating Gas Water Heaters



Our Reliable Gas Circulating Water Heater and Gasoline Heater we consider the best on the market. We do not claim that they are the cheapest but that they are absolutely the best. They can be connected to any kitchen range boiler as shown in the cuts on this page without interfering with the present kitchen range or furnace connections. The floor space they occupy is only eight inches in diameter. They are available for heating water instantly day or night and the advantage of this kind of heater is that it puts the hot water right in your circulating pipe and the water is available in the bath tub, lavatory, on the kitchen sink or in the laundry tubs.

The cost of operation is very slight. The heaters are made with alternating solid sections and rings as you will note in the sectional view, so arranged that water constantly flows from the circumference to the center, from the center to the circumference, and back to the center again, as it works its way from the bottom to the top of the heater.

The No. 9 and No. 10 have polished steel casings. The No. 7 and No. 8 have cast iron casings. These casings are so arranged that nearly all heat is kept in the heater. The cast iron has no particular advantage for heating qualities but is, perhaps, a little more endurable.

The burner is a very powerful heat producer. It has a removable loose cone so that it can be easily and thoroughly cleaned. It is also fitted with an adjustable valve enabling the simple regulation of burner for any pressure of gas.

We furnish these for either natural or manufactured gas. The casing around the coil is removable so that it is a very easy matter to clean the coil thoroughly.

## Reliable Gas Circulating Water Heaters

### SIZES

Water Heater with Polished Steel Casings

Manufactured Gas	Natural Gas	Height of Heater	Diameter Casings	Price
No. 5-A-628.	No. 5-A-629.	22½ in.	8 in.	\$10.00

Water Heater with Cast Iron Casings

Manufactured Gas	Natural Gas	Height of Heater	Diameter Casings	Price
No. 5-A-630.	No. 5-A-631.	20½ in.	7½ in.	\$12.00

## Reliable Circulating Gasoline Water Heaters



These heaters are made exactly like the gas heaters except that they are equipped with a tank for gasoline and arranged with the best known type of gasoline vapor burner. A test with a 30 gallon boiler filled with water at 50 degrees, gave the following results:

12 minutes raised to 164°
30 " " " 184°
45 " " " 200°
60 " " " 218°

The gasoline heaters are made with the polished steel casings only.

Height of Dia.  
Heater of Steel  
No. 5-A-632. 23" 7½" \$18.75

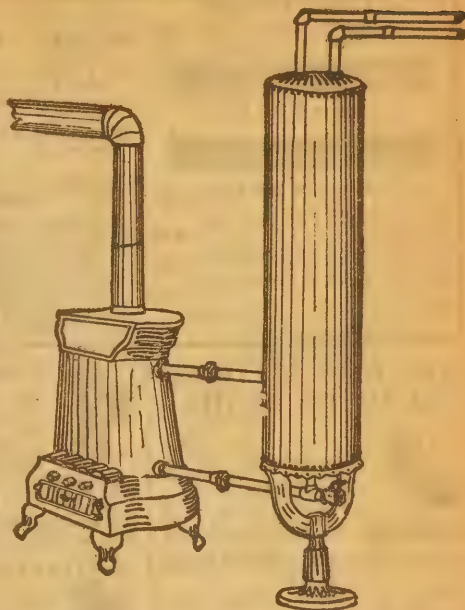
These heaters are not to be confused with the nickel plated instantaneous heaters which produce boiling hot water as fast as it flows through the heater.



Air Pressure Water Supply Systems for Country Homes.

## Tank Heaters

We illustrate here our New Tank Heater with square top so that irons or wash boiler can be placed thereon. It has the latest style revolving grate, and is the best low priced Tank Heater made today. The water jacket is made in one casting, is heavy, and will stand any water pressure up to 100 or 125 lbs. These Heaters are shipped direct from our foundry in Western Pennsylvania. They can be used with vertical range boilers, as we show in the above illustration, or they can be used with tanks that are placed horizontally. The largest sizes are almost invariably used with horizontal tanks. The No. 17 size Tank Heater can be used in connection with a 400 or 500 gallon tank. It will heat about 250 gallons of water per hour, and in hotels where sometimes as much as 500 gallons of water is used in a single hour; if one of these heaters is used, it will store up that much hot water for the time when it is needed. We will quote you on large sizes of Tank Heaters on application.



## Dimensions and Prices of Heaters

Following Prices Are for Heaters Only

No.	Size of Top for Irons	Diam. of Fire Pot	Size of Tapping	Depth of Fire Pot	Gallons Capacity	Price
5-A-633	14x24	10 in.	1 in.	10 in.	50 to 75	\$17.50

No.	Size of Fire Pot	Depth of Fire Pot	Size of Smoke Pipe	Tank Cap. Gallons	Size of Tapping	Price
5-A-634	10	11	6 in.	100	1 in.	\$20.00
5-A-635	10	13	6 in.	125	1 in.	22.50
5-A-636	13	12	7 in.	150	1½ in.	25.00
5-A-637	13	15	7 in.	200	1½ in.	27.50
5-A-638	13	18	7 in.	250	1½ in.	33.00

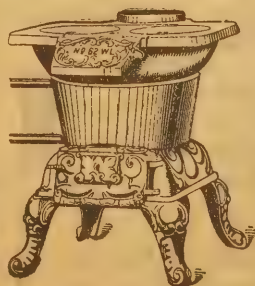
## "Handy" Water Heating Laundry Stove

No. 5-A-639.

This is a very low price Laundry Stove Tank Heater.

It will heat a 40-gallon range boiler, and we recommend it where it is desirable to use a coal stove for heating water for laundry purposes, and is especially desirable in connection with a gas range. It has a flat top 14x21 inches. It is large enough for a 9-inch wash boiler, and will burn hard or soft coal or coke. Has revolving grate.

Price, complete with shaker and stove lifter



**\$12.00**



# SOIL PIPE AND FITTINGS.

## CAST IRON SOIL PIPE.

Every length tested and fully guaranteed. Comes in 5 ft. lengths only.



Single Hub Soil Pipe.



Double Hub Soil Pipe, Per Length

No. 5-A-286. 2 in. standard single hub.	\$0.48
No. 5-A-287. 2 in. standard, double hub.	.62
No. 5-A-288. 2 in. extra heavy, single hub.	.60
No. 5-A-289. 2 in. extra heavy, double hub.	.63

No.	Size	Per Length
No. 5-A-290.	4 in. standard, single hub.	\$0.76
No. 5-A-291.	4 in. standard, double hub.	.87
No. 5-A-292.	4 in. extra heavy, single hub.	1.12
No. 5-A-293.	4 in. extra heavy, double hub.	1.23

## WEIGHTS OF SOIL PIPE PER LENGTH.

2 in. standard, single hub.	17½ lbs.
2 in. standard, double hub.	18 lbs.
2 in. extra heavy, single hub.	27½ lbs.
2 in. extra heavy, double hub.	28½ lbs.
4 in. standard, single hub.	32½ lbs.
4 in. standard, double hub.	34 lbs.
4 in. extra heavy, single hub.	65 lbs.
4 in. extra heavy, double hub.	68 lbs.

## SOIL PIPE FITTINGS. QUARTER BENDS.

No.	Size	Price Each
No. 5-A-294.	2 in. standard.	\$0.09
No. 5-A-295.	2 in. extra heavy.	.12
No. 5-A-296.	4 in. standard.	.20
No. 5-A-297.	4 in. extra heavy.	.25

## QUARTER BENDS WITH SIDE INLET.

No.	Size	Price Each
No. 5-A-298.	4 in. standard with 2 in. inlet.	\$0.40
No. 5-A-299.	4 in. extra heavy, with 2 in. inlet.	.46

## QUARTER BENDS WITH HEEL INLET.

No.	Size	Price Each
No. 5-A-300.	2 in. standard, with 2 in. inlet.	\$0.28
No. 5-A-301.	2 in. extra heavy, with 2 in. inlet.	.30
No. 5-A-302.	4 in. standard, with 2 in. inlet.	.40
No. 5-A-303.	4 in. extra heavy, with 2 in. inlet.	.46

## QUARTER BENDS—DOUBLE HUB.

No.	Size	Price Each
No. 5-A-304.	2 in. standard.	\$0.15
No. 5-A-305.	2 in. extra heavy.	.17
No. 5-A-306.	4 in. standard.	.27
No. 5-A-307.	4 in. extra heavy.	.33

## LONG QUARTER BENDS.

No.	Size	Price Each
No. 5-A-308.	2x14 in. long standard.	\$0.30
No. 5-A-309.	2x14 in. long, extra heavy.	.42
No. 5-A-310.	4x18 in. long, standard.	.58
No. 5-A-311.	4x18 in. long, extra heavy.	.86

## SIXTH BEND.

No.	Size	Price Each
No. 5-A-312.	2 in. standard.	\$0.09
No. 5-A-313.	2 in. extra heavy.	.12
No. 5-A-314.	4 in. standard.	.20
No. 5-A-315.	4 in. extra heavy.	.26

## EIGHTH BEND.

No.	Size	Price Each
No. 5-A-316.	2 in. standard.	\$0.09
No. 5-A-317.	2 in. extra heavy.	.12
No. 5-A-318.	4 in. standard.	.20
No. 5-A-319.	4 in. extra heavy.	.26

## "T" BRANCHES WITH HAND HOLE FOR CLEAN OUT.

No.	Size	Price Each
No. 5-A-356.	2 in. standard.	\$0.30
No. 5-A-357.	2 in. extra heavy.	.35
No. 5-A-358.	4 in. standard.	.52
No. 5-A-359.	4 in. extra heavy.	.62

## CROSSES.

No.	Size	Price Each
No. 5-A-360.	2x2 in. standard.	\$0.30
No. 5-A-361.	2x2 in. extra heavy.	.42
No. 5-A-362.	4x4 in. standard.	.62
No. 5-A-363.	4x4 in. extra heavy.	.72

## SANITARY CROSSES.

No.	Size	Price Each
No. 5-A-364.	2x2 in. standard.	\$0.30
No. 5-A-365.	2x2 in. extra heavy.	.42
No. 5-A-366.	4x2 in. standard.	.56
No. 5-A-367.	4x2 in. extra heavy.	.67
No. 5-A-368.	4x4 in. standard.	.56
No. 5-A-369.	4x4 in. extra heavy.	.67

## TAPPED CROSSES.

No.	Size	Price Each
No. 5-A-370.	2x1½ in. standard.	\$0.50
No. 5-A-371.	2x1½ in. extra heavy.	.65
No. 5-A-372.	2x1½ in. standard.	.50
No. 5-A-373.	2x1½ in. standard.	.65
No. 5-A-374.	2x2 in. standard.	.50
No. 5-A-375.	2x2 in. extra heavy.	.65
No. 5-A-376.	4x1½ in. standard.	.68
No. 5-A-377.	4x1½ in. extra heavy.	.88
No. 5-A-378.	4x1½ in. standard.	.68
No. 5-A-379.	4x1½ in. extra heavy.	.88
No. 5-A-380.	4x2 in. standard.	.68
No. 5-A-381.	4x2 in. extra heavy.	.88

## SANITARY CROSSES TAPPED FOR STANDARD IRON PIPE.

No.	Size	Price Each
No. 5-A-382.	2x1½ in. standard.	\$0.52
No. 5-A-383.	2x1½ in. extra heavy.	.67
No. 5-A-384.	2x1½ in. standard.	.52
No. 5-A-385.	2x1½ in. extra heavy.	.65
No. 5-A-386.	2x2 in. standard.	.52
No. 5-A-387.	2x2 in. extra heavy.	.65
No. 5-A-388.	4x1½ in. standard.	.68
No. 5-A-389.	4x1½ in. extra heavy.	.88
No. 5-A-390.	4x1½ in. standard.	.68
No. 5-A-391.	4x1½ in. extra heavy.	.88
No. 5-A-392.	4x2 in. standard.	.68
No. 5-A-393.	4x2 in. extra heavy.	.95

## "Y" BRANCHES.

No.	Size	Price Each
No. 5-A-394.	2x2 in. standard.	\$0.15
No. 5-A-395.	2x2 in. extra heavy.	.22
No. 5-A-396.	4x2 in. standard.	.36
No. 5-A-397.	4x2 in. extra heavy.	.48
No. 5-A-398.	4x4 in. standard.	.36
No. 5-A-399.	4x4 in. extra heavy.	.48

## DOUBLE "Y" BRANCHES.

No.	Size	Price Each
No. 5-A-400.	2x2 in. standard.	\$0.31
No. 5-A-401.	2x2 in. extra heavy.	.44
No. 5-A-402.	4x2 in. standard.	.55
No. 5-A-403.	4x2 in. extra heavy.	.77
No. 5-A-404.	4x4 in. standard.	.55
No. 5-A-405.	4x4 in. extra heavy.	.77

## OFFSETS.

No.	Size	Price Each
No. 5-A-406.	2x2 in. standard.	\$0.16
No. 5-A-407.	2x2 in. extra heavy.	.25
No. 5-A-408.	2x4 in. standard.	.17
No. 5-A-409.	2x4 in. extra heavy.	.27
No. 5-A-410.	2x6 in. standard.	.20
No. 5-A-411.	2x6 in. extra heavy.	.30
No. 5-A-412.	2x8 in. standard.	.25
No. 5-A-413.	2x8 in. extra heavy.	.35
No. 5-A-414.	2x10 in. standard.	.29
No. 5-A-415.	2x10 in. extra heavy.	.39
No. 5-A-416.	2x12 in. standard.	.30
No. 5-A-417.	2x12 in. extra heavy.	.39
No. 5-A-418.	4x4 in. standard.	.31
No. 5-A-419.	4x4 in. extra heavy.	.42
No. 5-A-420.	4x6 in. standard.	.34
No. 5-A-421.	4x6 in. extra heavy.	.52
No. 5-A-422.	4x8 in. standard.	.41
No. 5-A-423.	4x8 in. extra heavy.	.58
No. 5-A-424.	4x10 in. standard.	.47
No. 5-A-425.	4x10 in. extra heavy.	.65
No. 5-A-426.	4x12 in. standard.	.49
No. 5-A-427.	4x12 in. extra heavy.	.68

## VENTILATING BRANCHES WITH SIDE INLET.

No.	Size	Price Each
No. 5-A-428.	2x2 in. standard.	\$0.25
No. 5-A-429.	2x2 in. extra heavy.	.35
No. 5-A-430.	4x2 in. standard.	.40
No. 5-A-431.	4x2 in. extra heavy.	.45

## TAPPED INCREASERS.

No.	Size	Price Each
No. 5-A-432.	1½ to 4 in. standard.	\$0.30
No. 5-A-433.	1½ to 4 in. extra heavy.	.35
No. 5-A-434.	2 to 4 in. standard.	.35
No. 5-A-435.	2 to 4 in. extra heavy.	.37

## REDUCERS.

No.	Size	Price Each
No. 5-A-436.	4 to 2 in. standard.	\$0.18
No. 5-A-437.	4 to 2 in. extra heavy.	.25

## DOUBLE HUBS.

No.	Size	Price Each
No. 5-A-438.	2 in. standard.	\$0.07
No. 5-A-439.	2 in. extra heavy.	.11
No. 5-A-440.	4 in. standard.	.15
No. 5-A-441.	4 in. extra heavy.	.19

## PLUGS.

No.	Size	Price Each
No. 5-A-442.	2 in. standard.	\$0.03
No. 5-A-443.	2 in. extra heavy.	.05
No. 5-A-444.	4 in. standard.	.07
No. 5-A-445.	4 in. extra heavy.	.17

## VENTILATING CAPS.

No.	Size	Price Each
No. 5-A-446.	4x6 in. long, standard.	\$0.25
No. 5-A-447.	4x6 in. long, extra heavy.	.37
No. 5-A-448.	4x12 in. long, standard.	.40
No. 5-A-449.	4x12 in. long, extra strong.	.55

## ROOF FLATES.

No.	Size	Price Each
No. 5-A-450.	4 in. standard.	\$0.10
No. 5-A-451.	4 in. extra heavy.	.16



## PIPE RESTS.



- No. 5-A-452. 2 in. standard... \$0.08  
 No. 5-A-453. 2 in. extra heavy... 10  
 No. 5-A-454. 4 in. standard... 16  
 No. 5-A-455. 4 in. extra heavy... 18

## "S" TRAPS.

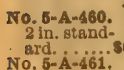
Price Each



- No. 5-A-456. 2 in. standard... \$0.20  
 No. 5-A-457. 2 in. extra heavy... 29  
 No. 5-A-458. 4 in. standard... 40  
 No. 5-A-459. 4 in. extra heavy... 60

## THREE-QUARTER "S" TRAPS

Price Each



- No. 5-A-460. 2 in. standard... \$0.20  
 No. 5-A-461. 2 in. extra heavy... 24  
 No. 5-A-462. 4 in. standard... 40  
 No. 5-A-463. 4 in. extra heavy... 60

## HALF "S" TRAPS.

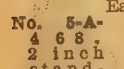
Price Each



- No. 5-A-464. 2 in. standard... \$0.20  
 No. 5-A-465. 2 in. extra heavy... 29  
 No. 5-A-466. 4 in. standard... 40  
 No. 5-A-467. 4 in. extra heavy... 60

## RUNNING TRAPS.

Price Each



- No. 5-A-468. 2 in. standard... \$0.20  
 No. 5-A-469. 2 in. extra heavy... 29  
 No. 5-A-470. 4 in. standard... 42  
 No. 5-A-471. 4 in. extra heavy... 63

## RUNNING TRAPS WITH HAND HOLE AND COVER.

- No. 5-A-81. 2 in. standard... \$0.35  
 No. 5-A-82. 2 in. ex. heavy... 43  
 No. 5-A-83. 4 in. standard... 80  
 No. 5-A-84. 4 in. ex. heavy... 80

## SOIL PIPE HOOKS.



- No. 5-A-85. 2 in. Price each... \$0.04  
 No. 5-A-86. 4 in. Price each... .05

## "S" TRAPS WITH VENT.

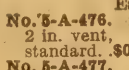
Price Each



- No. 5-A-472. 2 in. with 2 in. vent, standard... \$0.40  
 No. 5-A-473. 2 in. with 2 in. vent, extra heavy... 50  
 No. 5-A-474. 4 in. with 2 in. vent, standard... 60  
 No. 5-A-475. 4 in. with 2 in. vent, extra heavy... 80

## THREE-QUARTER "S" TRAPS WITH VENT.

Price Each



- No. 5-A-476. 2 in. vent, standard... \$0.40  
 No. 5-A-477. 2 in. with 2 in. vent, extra heavy... 50  
 No. 5-A-478. 4 in. with 2 in. vent, standard... 60  
 No. 5-A-479. 4 in. with 2 in. vent, extra heavy... 80

## HALF "S" TRAPS WITH VENT.

Price Each



- No. 5-A-480. 2 in. with 2 in. vent, standard... \$0.40  
 No. 5-A-481. 2 in. with 2 in. vent, extra heavy... 50  
 No. 5-A-482. 4 in. with 2 in. vent, standard... 60  
 No. 5-A-483. 4 in. with 2 in. vent, extra heavy... 80

## "S" TRAPS WITH HAND HOLE AND COVER.

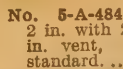
Price Each



- No. 5-A-484. 2 in. standard... \$0.35  
 No. 5-A-485. 2 in. extra heavy... 42  
 No. 5-A-490. 4 in. standard... 60  
 No. 5-A-491. 4 in. extra heavy... 80

## RUNNING TRAP WITH VENT.

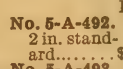
Price Each



- No. 5-A-484. 2 in. with 2 in. vent, standard... \$0.40  
 No. 5-A-485. 2 in. with 2 in. vent, extra heavy... 50  
 No. 5-A-486. 4 in. with 4 in. vent, standard... 70  
 No. 5-A-487. 4 in. with 2 in. vent, extra heavy... 90

## THREE-QUARTER "S" TRAPS WITH HAND HOLE AND COVER.

Price Each



- No. 5-A-492. 2 in. standard... \$0.35  
 No. 5-A-493. 2 in. extra heavy... 42  
 No. 5-A-494. 4 in. standard... 60  
 No. 5-A-495. 4 in. extra heavy... 80

## HALF "S" TRAPS WITH HAND HOLE AND COVER.

Price Each



- No. 5-A-496. 2 in. standard... \$0.35  
 No. 5-A-497. 2 in. extra heavy... 42  
 No. 5-A-498. 4 in. standard... 60  
 No. 5-A-499. 4 in. extra heavy... 80

## LONG INCREASES FOR CALCULATING.



- No. 5-A-517. 2 to 4x24 inches long, standard. Price... \$0.65  
 No. 5-A-518. 2 to 4x24 inches long, extra heavy. Price... 70

## LONG INCREASES TAPPED ON BOTTOM FOR IRON PIPE.



- No. 5-A-519. 1 1/2 to 4x24 inches long, standard. Price... \$0.75  
 No. 5-A-520. 2 to 4x24 inches long, standard. Price... 75  
 No. 5-A-521. 1 1/2 to 4x24 inches long, extra heavy. Price... 90  
 No. 5-A-522. 2 to 4x24 inches long, extra heavy. Price... 90

## LONG INCREASES TAPPED ON SIDE FOR IRON PIPE.



- No. 5-A-523. 2 to 4 inches, tapped 1 1/2 inches on side, 24 inches long, standard. Price... \$0.75  
 No. 5-A-524. 2 to 4 inches, tapped 2 inches on side, 24 inches long, standard. Price... 75  
 No. 5-A-525. 2 to 4 inches, tapped 1 1/2 inches on side, 24 inches long, extra heavy. Price... 90  
 No. 5-A-526. 2 to 4 inches, tapped 2 inches on side, 24 inches long, extra heavy. Price... 90  
 No. 5-A-527. 4 to 5 inches, tapped 2 inches on side, 30 inches long, standard. Price... 90  
 No. 5-A-528. 4 to 5 inches, tapped 2 inches on side, 30 inches long, extra heavy. Price... 110

## CLEAN OUT PLUGS.

Iron Ferrule with Brass Trap Screw.



- No. 5-A-90. 2 in... \$0.16  
 No. 5-A-91. 4 in... 37

## SERVICE BOXES.

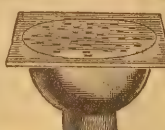
No. 5-A-92. 2 1/2 inches Diameter



- Extending Inches  
 Price each 24-38 \$0.73 36-54 \$0.83 42-60 \$0.90 54-78 \$1.10

## CAST IRON CESSPOOLS WITH BELL TRAPS.

Price each.



- No. 5-A-87. 6 in. x 6 in. \$0.40  
 No. 5-A-88. 9 in. x 9 in. 50  
 No. 5-A-89. 13 in. x 13 in. 75

● If you want honestly made and reliable goods it will pay you to refer to the Furniture Section of this Catalogue.

## GREENHOUSE FITTINGS

Are used in connection with four-inch cast iron greenhouse pipe or four-inch boiler tubes. Boiler tubes are being used more for greenhouse heating than the cast iron pipe. The tubes radiate the heat quicker than the pipe and they come in much longer lengths, thereby reducing the number of joints.

Fittings are made only for four-inch tubes or cast iron pipe.



- No. 5-A-500. Return Bend Hub Outlet.  
 Price, each... \$0.80



- No. 5-A-501. Return Bend Spigot Outlet.  
 Price, each... \$0.80



- No. 5-A-502. Return Bend Single Hub.  
 Price, each... \$0.60



- No. 5-A-503. Return Bend Double Hub.  
 Price, each... \$0.68



- No. 5-A-504. Double Elbow all Hub Connections.  
 Price, each... \$0.90

- No. 5-A-505. Triple Elbow, all Hub connections.  
 Price, each... \$1.25



- No. 5-A-507. 1/2 Bend or Elbow Double Hub.  
 Price, each... \$0.27



- No. 5-A-509. Cross with Hub connections.  
 Price, each... \$0.80



- No. 5-A-506. Quadruple Elbow, all Hub connections.  
 Price, each... \$1.50



- No. 5-A-508. 1/2 Bend or 45 degree Elbow, Double Hub.  
 Price, each... \$0.27



- No. 5-A-510. Branch Tee, Hub connections.  
 Price, each... \$0.60



- No. 5-A-511. "H" Branch with Hub connections.  
 Price, each... \$0.60



- No. 5-A-512. Three Way Branch tee with Hub connections.  
 Price, each... \$1.60



- No. 5-A-513. Greenhouse Butterfly Valve, Hub ends.  
 Price, each... \$3.50



- No. 5-A-514. Greenhouse Valve, Hub ends.  
 Price, each... \$5.60



**LEAD PIPE.**

We will furnish this pipe cut in lengths you may require. Prices are based on present market conditions. We offer Lead Pipe subject to market changes.

No. 5-A-94. Light, for waste pipe.

Diameter inches. 1 1 1/2 2 3 4  
Weight per ft. lbs. 1 1 1/2 2 3 4  
Price per foot. \$0.0750 \$0.10 \$0.1450 \$0.2150 \$0.3150 \$0.35  
No. 5-A-95. Strong for supply pipe.  
Diameter inches. 1 1 1/2 2 3 4  
Weight per foot lbs. 1 1 1/2 2 3 4  
Price per foot. \$0.12 \$0.17 \$0.21 \$0.28

**SHEET LEAD**  
No. 5-A-95.

Thickness, inches. 1-20 1-16  
Weight per square foot, lbs. 3 4  
Price per square foot. \$0.24 \$0.28 \$0.32

**COMBINATION LEAD AND IRON FERRULES**

No. 5-A-96. 4 ins. x 6 ins. Price each. \$0.42  
No. 5-A-97. 4 ins. x 8 ins. Price each. .51  
No. 5-A-98. 4 ins. x 10 ins. Price each. .63  
No. 5-A-99. 4 ins. x 12 ins. Price each. .70

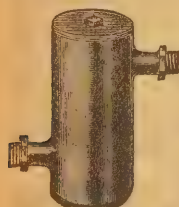
**BATH TRAPS.**

Lead body, size 4x8 ins., brass trap screw.

No. 5-A-100. Connections are threaded for 1 1/2 ins. pipe. Price \$2.50

No. 5-A-101. 1 1/2 ins. connections. Price \$2.75

If nickel plated trap screw is required there will be additional charge of 25c.

**LEAD DRUM TRAPS.**

No. 5-A-102. Lead drum traps with plain brass trap screw, size 4 ins. x 9 ins. Price each. \$1.00

No. 5-A-103. Lead drum traps with nickel plated brass trap screw size 4"x9". Price each. 1.10

**COMBINATION LEAD AND BRASS SOLDER NIPPLES.**

Used to connect lead and iron pipe.

No. 5-A-104. 1 1/2 ins. x 4 ins. long. Price Each. \$0.20  
No. 5-A-105. 1 1/2 ins. x 6 ins. long. .22  
No. 5-A-106. 1 1/2 ins. x 8 ins. long. .26  
No. 5-A-107. 1 1/2 ins. x 10 ins. long. .29  
No. 5-A-108. 1 1/2 ins. x 12 ins. long. .32  
No. 5-A-109. 1 1/2 ins. x 4 ins. long. .24  
No. 5-A-110. 1 1/2 ins. x 6 ins. long. .30  
No. 5-A-111. 1 1/2 ins. x 8 ins. long. .33  
No. 5-A-112. 1 1/2 ins. x 10 ins. long. .37  
No. 5-A-113. 1 1/2 ins. x 12 ins. long. .40  
No. 5-A-114. 2 ins. x 4 ins. long. .36  
No. 5-A-115. 2 ins. x 6 ins. long. .43  
No. 5-A-116. 2 ins. x 8 ins. long. .48  
No. 5-A-117. 2 ins. x 10 ins. long. .54  
No. 5-A-118. 2 ins. x 12 ins. long. .59

**COMBINATION LEAD BEND AND FERRULES.**

With 1/2 ins. Inlet.  
No. 5-A-119. 4 ins. x 12 ins. Price each. \$1.10  
No. 5-A-120. 4 ins. x 14 ins. Price each. 1.20  
No. 5-A-121. 4 ins. x 16 ins. Price each. 1.30  
No. 5-A-122. 4 ins. x 18 ins. Price each. 1.40

**LEAD RUNNING TRAPS.**

No. 5-A-123. Size 1 1/2 inch. Price Each. \$0.26  
No. 5-A-124. Size 1 1/2 in. .38  
No. 5-A-125. Size 2 inch. .60

**SHORT STANDARD LEAD "S" TRAPS.**

No. 5-A-126. 1 1/2 ins. Price Each. \$0.29  
No. 5-A-127. 1 1/2 ins. .45  
No. 5-A-128. 2 ins. .70  
No. 5-A-129. 4 ins. 1.63

**SHORT STANDARD LEAD "S" TRAPS WITH IRON PIPE CONNECTIONS ON OUTLET END.**

No. 5-A-130. 1 1/2 ins. Price each \$1.04  
No. 5-A-131. 1 1/2 ins. Price each 1.35  
No. 5-A-132. 2 ins. Price each 1.95

**LONG STANDARD LEAD "S" TRAPS.**

No. 5-A-133. 1 1/2 ins. Price Each. \$0.47  
No. 5-A-134. 1 1/2 ins. .68  
No. 5-A-135. 2 ins. 1.00

**LONG STANDARD LEAD "S" TRAPS.**

With iron pipe connection on outlet end.

No. 5-A-136. 1 1/2 ins. Price each \$1.32  
No. 5-A-137. 1 1/2 ins. Price each 1.58  
No. 5-A-138. 2 ins. Price each 2.25

**HALF "S" OR "P" LEAD TRAPS.**

No. 5-A-139. 1 1/2 ins. Price Each. \$0.27  
No. 5-A-140. 1 1/2 ins. .38  
No. 5-A-141. 2 ins. .60

**HALF "S" OR "P" LEAD TRAPS WITH IRON PIPE CONNECTIONS ON OUTLET END.**

No. 5-A-142. 1 1/2 ins. Price Each. \$1.02  
No. 5-A-143. 1 1/2 ins. 1.28  
No. 5-A-144. 2 ins. 1.85

**LONG LEAD BENDS.**

No. 5-A-145. 1 1/2 ins. Price Each. \$0.15  
No. 5-A-146. 1 1/2 ins. .25  
No. 5-A-147. 2 ins. .39  
No. 5-A-148. 4 ins. .98

**SHORT LEAD BENDS.**

No. 5-A-149. 1 1/2 ins. Price each. \$0.13  
No. 5-A-150. 1 1/2 ins. Price each. .19  
No. 5-A-151. 2 ins. Price each. .29  
No. 5-A-152. 4 ins. Price each. .75

**BRASS FERRULES.**

Used in connecting Closet Waste Pipe or Soil Pipe.

No. 5-A-153. 2 ins. x 4 ins. Price Each. \$0.15  
No. 5-A-154. 4 ins. x 4 ins. .28  
No. 5-A-155. 4 ins. x 6 ins. .35

**SINK BRACKETS.**

Adjustable.

No. 5-A-156. For 16 ins. and 18 ins. sink. Price per pair. \$0.22  
No. 5-A-157. For 20 ins. sinks and larger. Price per pair. .30

**PLUMBERS' SOLDER.**

No. 5-A-158. Made of proper proportions of pure block tin and pig lead. Comes in bars weighing about 1 1/2 lbs. each. We sell full bars only. Guaranteed to be the best plumbers' solder on the market. Price per pound \$0.18

**CALKING LEAD**

No. 5-A-159. Price per pound, \$0.06

**PLUMBERS' SPUN OAKUM.**

Used for calking soil pipe and fitting. Comes in 50 pound coils and spun like a rope strand, saves labor and is very much superior to old style oakum formerly put up in bales.

No. 5-A-161. Price per full coil \$2.25  
No. 5-A-160. In less than full coils, per lb. 0.06

**GASOLINE BLOW-TORCHES.**

No. 5-A-162. Equipped with soldering iron attachment. Made of heavy brass and has non-leakable valves. The safest and best torch on the market. Fully guaranteed.

Capacity 1 pt. Price. \$2.60  
Capacity 1 qt. Price. 2.80

**GASOLINE TORCH.**

A thoroughly practical and handy torch for the various trades and professions where a small flame is required. Simple in operation, has no pump or valves, burns constantly for about three hours with one filling.

No. 5-A-764. Price. \$0.95

**GASOLINE BULB BLAST PLUMBERS' FURNACE.**

Fitted with shield to hold melting pot. This furnace will produce quicker and hotter flame than any other furnace of its kind on the market. No. 5-A-163. Price. \$3.25

**MELTING POT.**

No. 5-A-164. To be used in connection with our Gasoline Bulb Blast Furnace. Price. \$0.18

**MELTING LADLES.**

No. 5-A-165. Size across bowl, inches 3 4 5  
Price. \$0.10 \$0.12 \$0.17

**WIPING CLOTH.**

No. 5-A-165. Used by plumbers in wiping lead joints. Made of very heavy ticking. Price each. \$0.05

**TAP BORE.**

No. 5-A-166. Plumbers' tap borer. Price. \$0.18

**CALKING CHISEL.**

No. 5-A-167. Plumbers' calking chisel, made of special tool steel; can supply straight, right or left hand offset. Price each. \$0.13

**YARNING IRON.**

No. 5-A-168. Plumbers' yarning iron, made of special tool steel. Price. \$0.20

**BENDING PINS.**

No. 5-A-169. Plumbers' bending pins. Price each. \$0.09

**OVAL SHAVE HOOKS.**

No. 5-A-170. Plumbers' oval shave hook, crucible steel blade. Price each. \$0.18

**TURN PINS.**

No. 5-A-171. Size Nos. 1 2 3  
Price each. \$0.17 \$0.19 \$0.20

**DRIFT PLUGS.**

No. 5-A-172. Size, in. 1 1 1/2 2  
Price each. \$0.08 \$0.11 \$0.13 \$0.15

**BOX WOOD DRESSER.**

No. 5-A-173. Plumbers' Box Wood Dresser. Price each. \$0.45

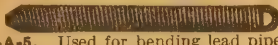




**SOLDERING COPPERS.**

No. 5-A-4. Weight, 1 lb. each. Furnished without handles. Price, each. ....\$0.35

**WOOD SOLDERING COPPER HANDLES.**  
No. 5-A-766. With wire ferrules. Price each. ....2c  
Per dozen. ....19c

**BENDING SPRINGS.**

No. 5-A-5. Used for bending lead pipe. Made of the best quality of spring steel.  
Size, inches. .... 1 1/2 2  
Price, each. ....\$0.26 \$0.30 \$0.60

**RUBBER EXTENSION ELBOWS.**

No. 5-A-6. Used to connect flush pipe with closet bowl, can be applied by anyone. Saves plumber's bills. Adjustable from 3 1/2 to 5 1/2 inches from end of coupling to center of elbow.  
Size, inches 1 1/2 1 3/4 2  
Price, each \$0.25 \$0.45 \$0.50

**BRASS SOLDERING NIPPLES—USED TO CONNECT LEAD WITH IRON PIPE.**

No. 5-A-8.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.07 \$0.09 \$0.11 \$0.15 \$0.22 \$0.31

**BRASS SOLDERING UNIONS—USED TO CONNECT LEAD WITH IRON.**

No. 5-A-9.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.08 \$0.09 \$0.11 \$0.15 \$0.19 \$0.29

**COMPRESSION SILL COCK.**  
No. 5-A-10. Size, inches, 1/2. Price, \$0.55

**COMPRESSION PLAIN BIBBS.**  
For Lead Pipe.  
No. 5-A-11.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.35 \$0.45 \$0.50 \$0.60 \$1.00

**COMPRESSION HOSE BIBBS.**  
No. 5-A-12. For Lead Pipe.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.40 \$0.50 \$0.60 \$0.70 \$1.00

**COMPRESSION HOSE BIBBS WITH FLANGE.**  
No. 5-A-13. For Iron Pipe.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.50 \$0.60 \$0.70 \$0.80 \$1.50

**COMPRESSION PLAIN BIBBS WITH FLANGE.**  
No. 5-A-14. For Iron Pipe.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.45 \$0.55 \$0.65 \$0.75 \$1.25

**COMPRESSION PLAIN BIBBS WITH FLANGE.**  
No. 5-A-15. For Lead Pipe.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.50 \$0.60 \$0.70 \$0.80 \$1.50

**COMPRESSION HOSE BIBBS WITH FLANGE.**  
No. 5-A-16. For Lead Pipe.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.55 \$0.65 \$0.75 \$0.85 \$1.50

**COMPRESSION HOSE BIBBS.**

No. 5-A-17. For Iron Pipe.

Price each. ....\$0.40  
Price each, Finished Brass. ....\$0.47  
Price each, Nickel Plated. ....\$1.20  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.50 \$0.60 \$1.20 \$1.30

**COMPRESSION PLAIN BIBBS.**  
No. 5-A-18. For Iron Pipe.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.33 \$0.45 \$0.55 \$1.20 \$1.30

**FULLER PLAIN BIBBS.**  
No. 5-A-19. For Lead Pipe.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.40 \$0.46 \$0.50 \$0.56 \$1.20

**FULLER HOSE BIBBS.**  
No. 5-A-20. For Lead Pipe.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.43 \$0.52 \$0.56 \$0.62 \$1.20

**FULLER HOSE BIBBS FOR IRON PIPE.**  
No. 5-A-21.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.47 \$0.57 \$0.63 \$0.67 \$1.20

**FULLER PLAIN BIBBS.**  
For Iron Pipe.  
No. 5-A-22.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.43 \$0.53 \$0.59 \$0.63 \$1.20

**FULLER PLAIN BIBBS WITH FLANGE FOR IRON PIPE.**  
No. 5-A-23.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.48 \$0.58 \$0.64 \$0.68 \$1.20

**FULLER HOSE BIBBS WITH FLANGE FOR IRON PIPE.**  
No. 5-A-24.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.53 \$0.63 \$0.69 \$0.73 \$1.20

**FULLER PLAIN BIBBS WITH FLANGE FOR LEAD PIPE.**  
No. 5-A-25.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.54 \$0.64 \$0.70 \$0.74 \$1.20

**FULLER HOSE BIBBS WITH FLANGE FOR LEAD PIPE.**  
No. 5-A-26.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.55 \$0.65 \$0.71 \$0.75 \$1.20

**LEVER HANDLE BRASS STOPS FOR IRON PIPE.**  
No. 5-A-27.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.30 \$0.40 \$0.46 \$0.50 \$1.00

**LEVER HANDLE BRASS STOPS FOR LEAD PIPE.**  
No. 5-A-28.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.30 \$0.40 \$0.46 \$0.50 \$1.00

**"T" HANDLE BRASS STOPS FOR IRON PIPE.**

No. 5-A-28.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.30 \$0.40 \$0.46 \$0.50 \$1.00

**LEVER HANDLE BRASS STOP AND WASTE FOR IRON PIPE.**  
No. 5-A-29.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.35 \$0.45 \$0.51 \$0.55 \$1.00

**"T" HANDLE BRASS STOP AND WASTE FOR IRON PIPE.**  
No. 5-A-30.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.35 \$0.45 \$0.51 \$0.55 \$1.00

**LEVER HANDLE BRASS STOPS FOR LEAD PIPE.**  
No. 5-A-31.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.30 \$0.40 \$0.46 \$0.50 \$1.00

**"T" HANDLE BRASS STOPS FOR LEAD PIPE.**  
No. 5-A-32.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.30 \$0.40 \$0.46 \$0.50 \$1.00

**LEVER HANDLE BRASS STOP AND WASTE FOR LEAD PIPE.**  
No. 5-A-33.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.35 \$0.45 \$0.51 \$0.55 \$1.00

**"T" HANDLE BRASS STOP AND WASTE FOR LEAD PIPE.**  
No. 5-A-34.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.35 \$0.45 \$0.51 \$0.55 \$1.00

**THREE-WAY BRASS COCK.**  
No. 5-A-35.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.70 \$0.85 \$1.00 \$1.15 \$1.60

**HYDRANT COCK.**  
No. 5-A-36.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.44 \$0.62 \$0.90 \$1.40 \$1.60

**HYDRANT CLAMPS.**  
No. 5-A-37. To be used in connection with 1/2 inch pipe to shut off hydrant cock on "T" handle stops.  
Size, inches. .... 1/2 3/4 1 1 1/2 2  
Price, each. ....\$0.04 \$0.05 \$0.06 \$0.07 \$0.10

**COMPRESSION URINAL COCK FOR LEAD OR IRON PIPE.**  
No. 5-A-38. Lead pipe. Price, each. ....\$0.80  
No. 5-A-39. Iron pipe. Price, each. ....\$0.80

**PLUMBER'S FRIEND FORCE CUPS.**  
No. 5-A-42. Used to force obstructions from closets, lavatories and sinks. Place the rubber cup over the opening and press down; this will form a suction and remove almost any obstruction, saving a plumber's bill which will easily pay for the force cup many times over. Complete with 3 foot handle.  
Price, each. ....\$0.28  
Price, per dozen. ....\$3.00



# BATHROOM AND LAVATORY TRIMMINGS.

## FULLER DOUBLE BATH COCKS.



No. 4. Made of heavy cast brass, handsomely nickel plated, guaranteed to be the best cock on the market.  
No. 5-A-44. Price with lead pipe tail piece. \$1.75  
No. 5-A-45. Price with iron pipe tail piece. 1.80

## COMPRESSION DOUBLE BATH COCK.

Made of heavy cast brass, handsomely nickel plated, excellent design, best possible to produce.



No. 6-A-46. Price with lead pipe tail piece. \$1.70  
No. 5-A-47. Price with iron pipe tail piece. 1.80

## FULLER BASIN COCK.



Cast brass, heavy design, finely nickel plated. Generally sold in pairs. One right, and one left hand. We will, however, sell a single cock, but it will be necessary to state when ordering whether right or left hand is required.

No. 5-A-48. Price with lead pipe tail piece, each. \$0.67  
No. 5-A-49. Price with iron pipe tail piece, each. .75

## COMPRESSION BASIN COCKS.

T handle, handsomely nickel plated.

No. 5-A-50. Price with lead pipe tail piece, each. \$0.50

No. 5-A-51. Price with iron pipe tail piece, each. .55



## INDEXED COMPRESSION LOW DOWN BASIN COCK.

Nickel Plated.

The most handsome and serviceable Basin Cock manufactured, the body and spout are cast solid in one piece, making it impossible to leak around the spout.

It is made with a stuffing box, which can be easily packed, making it impossible to leak around the handle. These important features are to be found only in this style of basin cock. On the top of the handle a white porcelain plate is properly fitted in and marked either "Hot" or "Cold". If not ordered in pairs, be sure and state what index you desire.

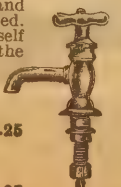
No. 5-A-52. Price with lead pipe tail piece, each. \$0.70  
No. 5-A-53. Price with iron pipe tail piece, each. 0.80



## BOSTON PATTERN SELF CLOSING BASIN COCKS.

Heavy pattern, and handsomely nickel plated. The most satisfactory self closing Basin Cock on the market.

No. 5-A-54. Price with lead pipe tail piece, each. \$1.25  
No. 5-A-55. Price with lead iron pipe tail piece, each. 1.35



## CONNECTED BATH WASTE AND OVERFLOW.



No. 5-A-56. Heavy nickel plated. Can be connected with the bath tub. This complete fitting costs less than the labor of putting in the old style waste and overflow in connection with bath tub. Price, each. \$1.25

## COMBINATION BATH TRAP, OVERFLOW AND WASTE.

The trap is provided with clean out plug, and is perfectly sanitary. Heavily nickel plated. We can furnish this fitting for either iron or lead pipe outlet.

No. 5-A-57. Price for lead pipe outlet. \$3.00

No. 5-A-58. Price for iron pipe outlet. 3.75

## BATH OVERFLOW STRAINER WITH RING FOR CHAIN.



No. 5-A-59. For lead pipe, Price. \$0.50  
No. 5-A-60. For 1 1/2 inch standard pipe, price. .65

## BATH WASTE PLUG, WITH RUBBER STOPPER.

No. 5-A-61. For lead pipe. Price. \$0.50

No. 5-A-62. For 1 1/2 inch iron pipe. .65

## NICKEL PLATED LAVATORY TRAPS.

Made of Brass Tubing, Heavily Nickel Plated.

No. 5-A-65. 1 1/2 inch nickel plated plain "P" trap, not vented. For lead pipe connection. Price each \$1.10  
No. 5-A-66. 1 1/2 inch nickel plated plain "P" trap. For iron pipe connection. Price each. \$1.60  
No. 5-A-67. 1 1/2 inch nickel plated plain "P" trap, not vented. For lead pipe connection. Price each \$1.45  
No. 5-A-68. 1 1/2 inch nickel plated plain "P" trap. For iron pipe connection. Price each. \$1.95

NICKEL PLATED VENTED "P" TRAPS.

No. 5-A-71. 1 1/2 inch nickel plated vented "P" trap. For lead pipe connection. Price each. \$1.45  
No. 5-A-72. 1 1/2 inch nickel plated vented "P" trap. For iron pipe connection. Price each. \$2.20  
No. 5-A-73. 1 1/2 inch nickel plated vented "P" trap. For lead pipe connection. Price each. \$2.00  
No. 5-A-74. 1 1/2 inch nickel plated vented "P" trap. For iron pipe connection. Price each. \$2.75

NICKEL PLATED PLAIN "S" TRAPS.

No. 5-A-75. 1 1/2 inch nickel plated plain "S" trap. For lead pipe connection. Price each. \$1.50  
No. 5-A-76. 1 1/2 inch nickel plated plain "S" trap. For iron pipe connection. Price each. \$2.00  
No. 5-A-77. 1 1/2 inch nickel plated plain "S" trap. For lead pipe connection. Price each. \$2.00  
No. 5-A-78. 1 1/2 inch nickel plated plain "S" trap. For iron pipe connection. Price each. \$2.50

NICKEL PLATED PLAIN "S" TRAPS.

No. 5-A-79. 1 1/2 inch nickel plated plain "S" trap. For lead pipe connection. Price each. \$1.50  
No. 5-A-80. 1 1/2 inch nickel plated plain "S" trap. For iron pipe connection. Price each. \$2.00  
No. 5-A-81. 1 1/2 inch nickel plated plain "S" trap. For lead pipe connection. Price each. \$2.00  
No. 5-A-82. 1 1/2 inch nickel plated plain "S" trap. For iron pipe connection. Price each. \$2.50

NICKEL PLATED PLAIN "S" TRAPS.

No. 5-A-83. 1 1/2 inch nickel plated plain "S" trap. For lead pipe connection. Price each. \$1.50  
No. 5-A-84. 1 1/2 inch nickel plated plain "S" trap. For iron pipe connection. Price each. \$2.00  
No. 5-A-85. 1 1/2 inch nickel plated plain "S" trap. For lead pipe connection. Price each. \$2.00  
No. 5-A-86. 1 1/2 inch nickel plated plain "S" trap. For iron pipe connection. Price each. \$2.50

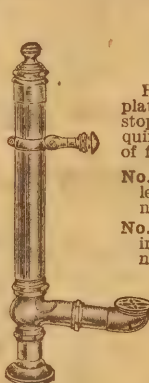
## VENTED "S" TRAPS.

No. 5-A-75. 1 1/2 inch nickel plated vented "S" trap. For lead pipe connection. Price each. \$1.80

No. 5-A-76. 1 1/2 inch nickel plated vented "S" trap. For iron pipe connection. Price each \$2.50

No. 5-A-77. 1 1/2 inch nickel plated vented "S" trap. For lead pipe connection. Price each \$2.10

No. 5-A-78. 1 1/2 inch nickel plated vented "S" trap. For iron pipe connection. Price each. \$2.85



## IDEAL BATH WASTE.

Heavily nickel plated. A rubber stopper is not required with this style of fitting.

No. 5-A-73. For lead pipe connection. Price \$4.50

No. 5-A-74. For iron pipe connection. Price 5.00

## IDEAL BASIN WASTE.

Heavily nickel plated. Size 1 1/2 inch.

No. 5-A-75. For lead pipe connection. Price \$3.00

No. 5-A-76. For iron pipe connection. Price 3.50



## STRAIGHT BATH SUPPLY PIPES.

No. 5-A-63. Nickel plated straight bath supply pipes, made of heavy 1/2 inch tubing, fitted with coupling, threaded to connect with tail piece on bath cock, complete with floor flanges. Price, per pair. \$1.00

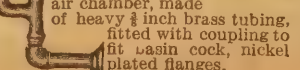
OFFSET BATH SUPPLY PIPES.

No. 5-A-64. Made of heavy 1/2 inch tubing, fitted with nickel plated threads to connect with bath cock, complete with floor flanges. Price, per pair, \$1.10

BASIN SUPPLY PIPES.

No. 5-A-79. Nickel plated Basin Supply Pipes to wall, plain, made of heavy 1/2 inch brass tubing fitted with coupling to fit basin cock, nickel plated flanges. Price, pair. \$1.00

No. 5-A-80. Nickel plated Basin Supply Pipes to wall, plain, with air chamber, made of heavy 1/2 inch brass tubing, fitted with coupling to fit basin cock, nickel plated flanges. Price, per pair. \$1.75

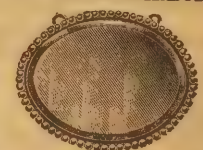


No. 5-A-77. Plain straight basin supplies, made of heavy tubing. Size, 1/2 inch; fitted with nickel plated coupling, threaded to fit basin cocks, furnished with nickel plated floor flanges. Price, per pair. \$1.15

## NICKEL PLATED BASIN SUPPLY PIPES.

No. 5-A-78. With air chambers. Made for 1/2 inch brass tubing connection, complete with floor flanges. Price, per pair. \$2.00

## BATH ROOM MIRRORS.



Oval frame with beaded edge. Made of brass, heavily nickel plated and highly polished. Made to hang both ways. Is of the best French plate. Each  
No. 5-A-212. Size 14x17 in. \$3.45  
No. 5-A-213. Size 10x20 in. 3.40  
No. 5-A-214. Size 16x20 in. 4.00  
No. 5-A-215. Size 18x24 in. 5.60

## BATH ROOM MIRRORS.



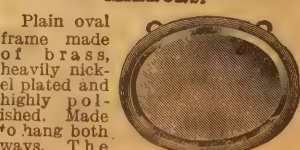
Square frame, beaded edge, made of brass, heavily nickel plated and highly polished. Made to hang both ways. Made of the very best French plate. Each  
No. 5-A-216. Size 10x20 in. \$3.60  
No. 5-A-217. Size 14x17 in. 3.75  
No. 5-A-218. Size 16x20 in. 4.50  
No. 5-A-219. Size 18x24 in. 6.00

## BATH ROOM MIRRORS.



Square frame, plain edge, made of brass, heavily nickel plated and highly polished. Made to hang both ways. Made of the very best French plate. Each  
No. 5-A-220. Size 10x20 in. \$3.00  
No. 5-A-221. Size 14x17 in. 3.10  
No. 5-A-222. Size 16x20 in. 3.70  
No. 5-A-223. Size 18x24 in. 4.90

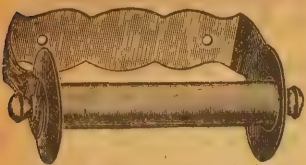
## PLAIN OVAL BATH ROOM MIRRORS.



Plain oval frame made of brass, heavily nickel plated and highly polished. Made to hang both ways. The mirror is the best French plate, with beveled edge. Each  
No. 5-A-230. Size 14x17 in. \$2.80  
No. 5-A-231. Size 10x20 in. 2.70  
No. 5-A-232. Size 16x20 in. 3.25  
No. 5-A-233. Size 18x24 in. 4.50



## TOILET PAPER HOLDERS.



No. 5-A-223. Made of brass, polished and nickel plated, with cherry roller.  
Price, each.....\$0.40



No. 5-A-224. Made of brass, heavily nickel plated and highly polished, with ebony roller.  
Price, each.....\$0.25



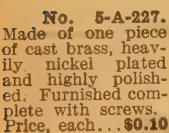
No. 5-A-225. Made of cast brass, heavily nickel plated and highly polished. This is a heavy fixture, and is well adapted for use with our best bath room outfits.  
Price, each.....\$0.75

## COAT AND HAT HOOK.



No. 5-A-226. Solid brass, heavily nickel plated and nicely finished. Furnished complete with screws.  
Size 6x4 1/2 in.  
Price, each.....\$0.33

## DOUBLE ROBE HOOKS.



No. 5-A-227. Made of one piece of cast brass, heavily nickel plated and highly polished. Furnished complete with screws.  
Price, each...\$0.10



## SINGLE ROBE HOOKS.



No. 5-A-228. Made of one piece cast brass, heavily nickel plated and highly polished. complete with screws.  
Price, each...\$0.07

## BATH SOAP HOLDER.



No. 5-A-235. Made of solid brass, heavily nickel plated, and nicely finished. Will fit any bath tub.  
Size 5 1/2 x 3 1/2 in. Price, each...\$0.57

## BATH SOAP HOLDER.



No. 5-A-234. Solid brass, nickel plated, nicely finished, and will fit any bath tub.  
Size 5 1/2 x 5 in. Price, each...\$0.50



No. 5-A-236. Made of solid brass, nickel plated and highly polished. Will fit any bath tub.  
Size 11 x 5 1/2 in. Price, each...\$1.30

## MATCH HOLDER AND RE-CEPTACLE FOR BURNED MATCHES.



5-A-237  
Made of solid brass, heavily nickel plated.  
No. 5-A-237. Price, each...\$0.95  
No. 5-A-238. Price, each...\$0.70



## BATH OR SHAMPOO SPRAY.



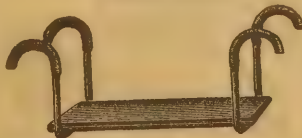
No. 5-A-240. Rubber bound, brass, nickel plated spray, 3 inches diameter, with 5 feet pure white rubber tubing, with hold fast rubber bulb.  
Price, each.....\$0.65

## SHOWER BATH SPRAY OR RING.



No. 5-A-241. Ring is 11 inches diameter, solid brass, heavily nickel plated and highly polished, with five feet pure white rubber hose and hold fast rubber bulb.  
Price, each.....\$1.15

## BATH SEAT.



No. 5-A-239. The rods are heavily nickel plated, ends are rubber covered to protect bath tub. The seat is of finished oak. Will fit any bath tub.  
Size 18x6 in. Price, each...\$0.45

## PLATE GLASS SHELVES.



Brackets are adjustable solid brass, nickel plated, and highly polished. Plate glass shelf is polished, and has rounded edges.

No. 5-A-242. Size of shelf 18x5 in. Price.....\$1.50  
No. 5-A-243. Size of shelf 24x5 in. Price.....1.95  
No. 5-A-244. Size of shelf 30x5 in. Price.....2.25

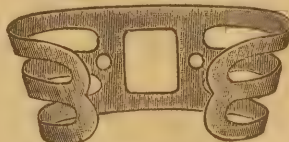
## PLATE GLASS SHELF AND TOWEL BAR COMBINED.



Brackets are made of solid cast brass, heavily nickel plated and polished. The shelf is made of plate glass polished, with rounded edges. The bar is of solid round glass, 1 inch diameter, and can be readily removed.

No. 5-A-245. Size of shelf 18x5 in. Price.....\$2.75  
No. 5-A-246. Size of shelf 24x5 in. Price.....3.50  
No. 5-A-247. Size of shelf 30x5 in. Price.....4.00

## WHISK BROOM HOLDER.



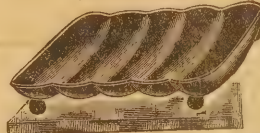
No. 5-A-248. Made of brass, heavily nickel plated, highly polished and complete with screws.  
Price, each.....\$0.15

## SOAP HOLDER.



No. 5-A-249. Made of brass, heavily nickel plated, highly polished, finished with ball feet.  
Size 5 1/2 x 5 in. Price, each...\$0.75

## SOAP DISH.



No. 5-A-250. Made of solid brass, heavily nickel plated, highly polished and finished with ball feet.  
Size 4 1/2 x 3 in. Price, each...\$0.22

## SOAP DISH.



No. 5-A-251. Made to fasten to wall. Solid brass, heavily nickel plated and highly polished, complete with screws. Price, each.....\$0.38



No. 5-A-762. Bath seat, nickel plated, full loop, rubber covered, brass rods. Seat 18x6 in., natural finish. Price, each.....\$0.60

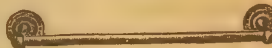
No. 5-A-763. Same as above, 5 coat, white enamel finish. The handsomest bath seat made.  
Price, each.....\$0.85

## NICKEL PLATED TOWEL BACKS.



Made of brass tube 1/2 inch diameter heavily nickel plated, complete with screws.  
No. 5-A-207. 15 inches long.....\$0.22  
No. 5-A-208. 18 inches long......24  
No. 5-A-209. 21 inches long......26  
No. 5-A-210. 24 inches long......27  
No. 5-A-211. 30 inches long......35

## NICKEL PLATED TOWEL BARS.



Made of 1/2 inch brass tubing, heavily nickel plated, with cast posts, complete with screws.  
Price Each

No. 5-A-252. 15 in. long....\$0.36  
No. 5-A-253. 18 in. long.... .38  
No. 5-A-254. 21 in. long.... .43  
No. 5-A-255. 24 in. long.... .45  
No. 5-A-256. 30 in. long.... .50

## GLASS TOWEL BAR.



Is made of clear 1/2 inch diameter. Posts are cast brass, heavily nickel plated and complete with screws.  
Price Each

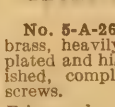
No. 5-A-257. 15 in. long....\$0.45  
No. 5-A-258. 18 in. long.... .55  
No. 5-A-259. 24 in. long.... .60

## TUMBLER HOLDER.



No. 5-A-260. Solid brass, heavily nickel plated and highly polished, complete with screws.  
Price, each .... \$0.35

## TUMBLER AND TOOTH BRUSH HOLDER COMBINED.



No. 5-A-261. Solid brass, heavily nickel plated and highly polished, complete with screws.  
Price, each.....\$0.40



## TOOTH BRUSH HOLDER.

No. 5-A-262. Solid brass, heavily nickel plated and highly polished, complete with screws.  
Price, each...\$0.55

## PORTABLE SHOWER BATH.



No. 5-A-760. Consists of brass nickel plated perforated shower, with substantial wire fastener and braced curtain ring. Superior quality rubber tubing with hold fast connection to attach to bath cock. Rubber curtain ring is fastened so that it can be placed above the tub when not in use. Arranged so that the curtain can be easily moved out of the way.  
Price, each.....\$12.00

No. 5-A-761. Portable shower bath as above described, with the exception that it is furnished complete with supply pipes to the floor, with hot and cold faucets. When furnished with supply pipes, rubber tubing is omitted.  
Price, each.....\$17.50

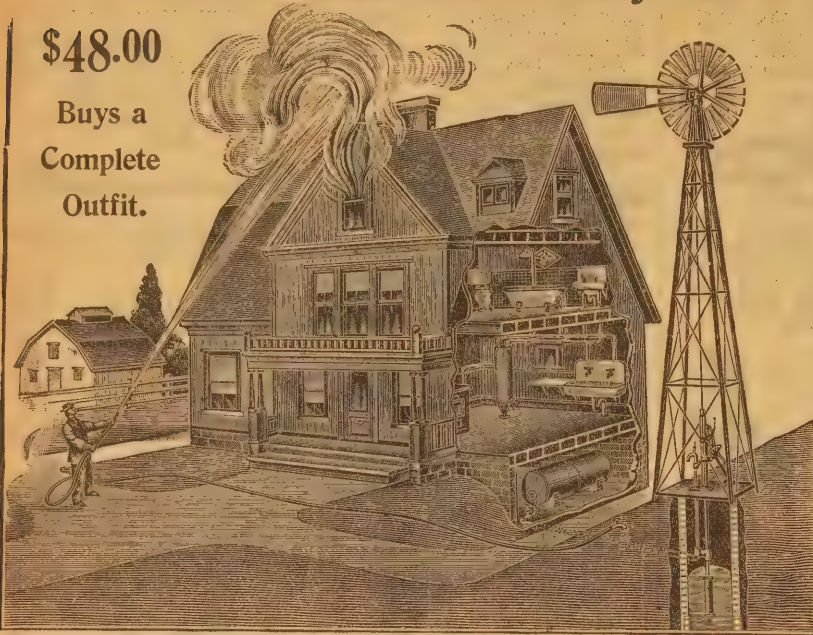


# MODERN AIR PRESSURE WATER SUPPLY SYSTEM

Water in Abundance in Every Part of Your Home or Farm.

**\$48.00**

**Buys a  
Complete  
Outfit.**



No more freezing of elevated tanks out doors with the attendant damage and expense for repairs, etc. Water almost ice-cold in summer and no danger of freezing in winter. No more stagnant water in the summertime, as is the case when you are using the elevated tank located out doors in the hot sun. Think of it! Every convenience of the modern city residence in your country home. Even though your home may be located far out in the country and isolated miles away from any municipal water supply system or sewerage system, as are to be found in modern towns and large cities, it is positively no longer necessary to be without the modern conveniences which are to be had in the most up-to-date and modern city homes.

## A Sure Protection From Fire.

Did you ever stop to think of the great risk you are running without a water supply system of some kind for use in case of fire? How many billions of dollars are lost every year in fires where one of these modern systems in the home would have prevented it? Suppose a fire should get a reasonably good start in any place in your home; no water available except in buckets from the well. What kind of a chance have you got to put out any sized fire? You might just as well step outside and watch the fire until it burns itself out, and when fires of this kind start in country homes, when it is all over there generally is not much left to look at.

You positively should not be without a system of this kind in your home for one moment. An elevated tank in the attic has some advantages over carrying water from a well, but its field is very limited indeed. It amounts to almost nothing as far as fire



Elevated tank frozen up. A common occurrence.

protection is concerned, as you can get very little pressure out of it, and, all things considered, systems is certainly the only practical system to install in your home.

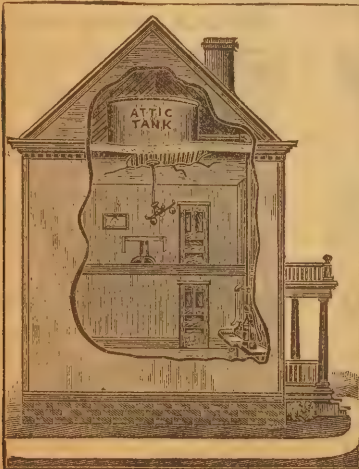
Compare the conditions referred to above—a fire in a country home without any means of water supply, with the opposite conditions, where a modern system has been installed. With water piped throughout the house and faucets properly placed at various points where they are most convenient and accessible, it is almost impossible for any fire to get any kind of a start. A large tank filled with water under a high pressure in the basement and the piping to be the proper size to supply a good stream of water and a good sized hose with nozzle, etc., ready for use in the basement, simply connect this hose to any of the faucets, turn on the valve and you can have the fire out in a very few moments.

## Every Modern Convenience Right in the Home.

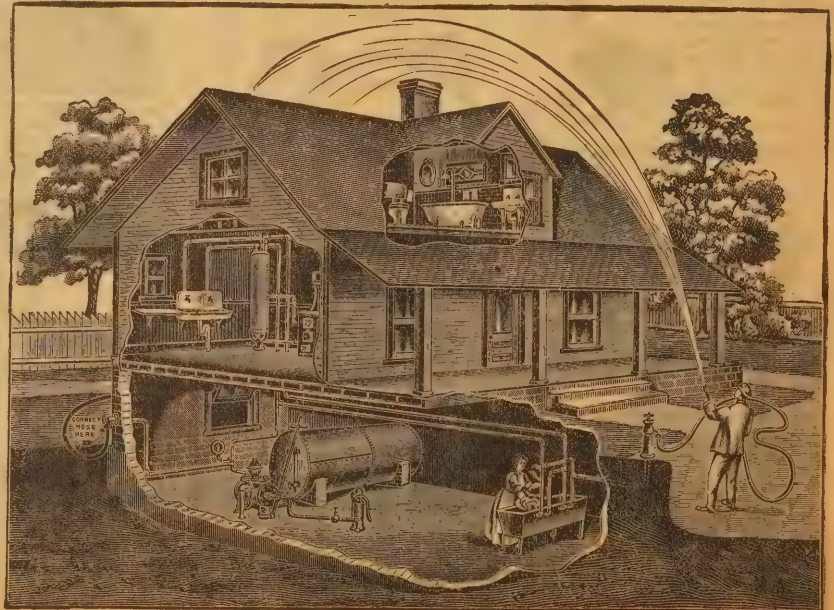
The feature of fire protection referred to above, which is, of course, only a very striking advantage, is really only a small part of the great benefits you derive from one of these outfits installed in your home. Just imagine the convenience of having running water in every part of your entire house, wherever you wish to carry the piping. Then consider the small investment required. Simply the cost of one of these outfits as listed on these pages. Note the very low prices at which we are offering the complete outfits ready for immediate service. There is positively no excuse for anyone being without one of these outfits. All the advantages of the modern bath room, the modern laundry, the modern kitchen, everything up-to-date, and we can furnish you all necessary material to completely equip your home with all of these conveniences for a very small amount of money. Complete plans and instructions for installing every outfit. You cannot possibly go wrong. We assist you at every point, loan you the necessary tools and help you out every way we possibly can.

## Write For Our Estimate.

Are you in need of one of these systems? Get our information blank at once. Fill it out carefully and return it to us, giving us the necessary information, and we will immediately refer the matter to our engineering department and we will line up a complete system for you that we will guarantee to fulfill your requirements completely and give you absolute satisfaction in every way. Our prices are far below anything that have ever before been offered in this line.



Attic Tank Not Altogether Satisfactory.





# Air Pressure Water Works Systems

## Quality

Do not allow the very low prices at which we are offering these Air Pressure Systems to give you the impression that the Tanks and Pumping Apparatus, etc., which we furnish with these equipments are of an inferior quality. The argument of quality as advanced by many manufacturers, who attempt to convey the impression that they, and they only, are the real original makers of Air Pressure Tanks, and no one else in the country is able to make such a thing as an Air Tight Tank. This is an overworked excuse for exorbitant prices. We guarantee our tanks to be absolutely air tight and perfect in every way, and this guarantee is backed by our entire capital. If we ship you an outfit and you find after you get it installed that the Tank is defective at any point and does not hold air absolutely tight indefinitely, you have the privilege to return all to us at our expense and we will refund your money in full. We back these tanks in quality against any Tanks manufactured at the present time, regardless of who makes them. Do not let these misleading statements advanced by many manufacturers give you the impression that these outfits that we are offering at such low prices are of an inferior quality.

## History

The Pneumatic Water Supply System as it now exists was invented by no one man. The basic principles and ideas were in use even long before the steam engine came into existence. The principle of forcing water to an elevation with Air Pressure has been known and used in many ways for hundreds of years. The Air Chamber, which is attached to the cylinder of every ordinary pump, is nothing more or less than an application of this principle. The practical application of the basic ideas involved as it is in existence today, is the result of nothing more or less than evolution in the course of time; and, as before stated, this system as it stands today is the invention of no one man, regardless of what claims may be put forth to the contrary. There is no only one original inventor and manufacturer of these outfits. The principle on which these systems work is ancient. However, it is admitted that it is only recently that this principle has been so extensively applied and commonly made use of in the modern Air Pressure System, as it is today; and we take to ourselves as much credit as anyone else in the work that we have done in the past ten years in furthering the idea of supplying water to the country residence with an Air Pressure System of this kind. Ten years ago this business was in its infancy, and we were then in the field as well as others who may claim originality in this work. We have had just as much experience in the planning and the details of manufacture of the apparatus as any other concern in the country, and we are just as well in a position to furnish you a high grade outfit of high grade workmanship and material as anyone else. If you would compare one of our systems with any of the higher priced outfits on the market you would very soon see for yourself that the only difference is the difference in price; as far as quality is concerned, they are equal.

## Nothing Complicated About It

If you have perused the literature of some of the manufacturers of these outfits, you have probably received the impression that an air pressure outfit is something very complicated—something that requires a lifetime study and engineering training to manufacture. We admit that there is considerable skill required in making an air pressure tank air tight, but beyond this there is nothing to it. The principles are almost as simple as any elevated tank system. It simply amounts to forcing the water into the tank against the air pressure, and this air, which is compressed in the top of the tank when the water is forced in, in expanding will naturally force the water out of the tank and through the piping system, and will cause it to flow out wherever a faucet is open on the line of piping. In order that the entire tank can be emptied, it is customary to pump in a quantity of air before the water is forced into the tank, so that when the tank is almost empty there will still be sufficient pressure of air in the tank to entirely empty the contents. For this reason it is proper that there should be a means of supplying air to the tank. Here, then, are the three essentials:—A simple pump to force

the water into the tank; a simple means of supplying air whenever it may be necessary, and a suitable tank of proper strength and workmanship, so as to be able to withstand the pressure of the air and confine it under pressure for any length of time. The last mentioned item is the most important of the three, and requires the most attention. That is the Tank. We have all tanks on our air pressure systems manufactured for ourselves, under contract. We guarantee these contracts; and on account of the enormous amount of our sales of these tanks, we are able to offer you such low prices as you will find listed on these pages. The matter of manufacturing these tanks and turning out the highest grade tank that it is possible to make, has received our utmost attention, and every tank is manufactured by the most skilled workmen, with the necessary experience in building these tanks so that they will be absolutely air tight and perfect in every way, and they will remain so after they are installed.

## Automatic Devices Not to Be Recommended

The systems which we use are the simplest in existence. Nothing complicated or intricate about them to get out of order and give you trouble. There are hundreds of special automatic air supplying devices, and various automatic devices of almost every imaginable description, which are placed on sale in connection with these outfits, and which are simply advanced as a selling point; and while the outfit itself may be entirely practical, it is a certainty that after you have the outfit installed you would very soon do away with these miscellaneous devices and find that your system will give you better satisfaction when operated in the old reliable and simple manner. That is, pump the water in when necessary; and when your gauge glass indicates that you need air, pump it in, yourself, without depending upon any automatic device to determine when the tank needs air and supply it. Sometimes these devices work, and sometimes they don't. The fact that they fail sometimes renders them impractical, and we do not recommend their use. We furnish two distinct systems. The only difference between the two is that in one system the water and air are supplied to the tank through two separate pumps; while in the other system we furnish a combination air and water pump, and there is an arrangement made whereby the pump will force both air and water into the tank whenever it is necessary, by simply operating a certain valve. Of course it is for you to determine when it is necessary to supply the air, and we do not depend on any automatic device of any kind to let us know this, as the height of the water line in the tank and the indicated pressure on the gauge is a sure indication as to whether it is necessary to supply air to the tank or not. We repeat, the simplest way is the best, and either of these two systems are the only systems that we recommend as a system that you can depend upon.

## Hand Driven Outfits

Note that we are able to furnish you with either Hand Driven Pumps or Gasoline or Electric Motor Driven Pumps, and we can furnish you with any of these different methods of power with these systems in practically any size you may require. Every part of this apparatus is absolutely brand new and perfect. We furnish you a Guarantee with every outfit, and you are taking no chances whatever. For the ordinary residence and the average size family, a Hand Operated Pump gives good satisfaction, and really does not require very much exertion to supply sufficient water for the entire family. Ten minutes' pumping every day will fulfill all average requirements; and for the small outfit, owing to its simplicity and the slight amount of labor required to supply the water, we recommend a Hand Driven Outfit. Of course, if you want to get something that will do away entirely with the matter of pumping by hand, we recommend either the Electric Motor Driven Outfit or the Gasoline Engine Driven Outfit, and we can furnish these Engines complete in every detail—we will guarantee them to work perfectly and give you absolute satisfaction in every way. As before stated, we furnish you complete instructions and detailed blueprints covering the installation of every part of the apparatus, and you cannot possibly go wrong in the matter.



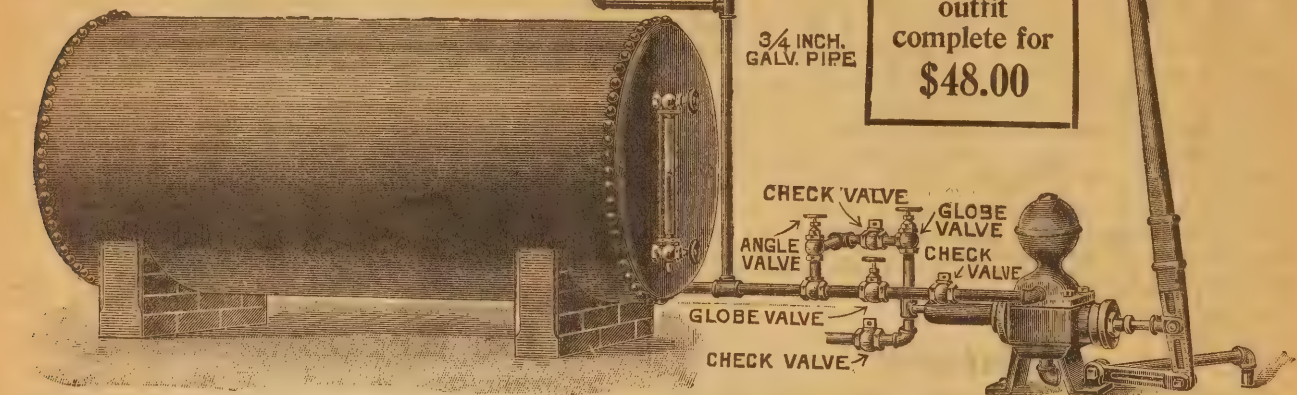
# OUR COMBINATION AIR AND WATER PUMP OUTFITS

**SATISFACTION  
GUARANTEED**

AIR PRESSURE GAUGE

3/4 INCH.  
GALV. PIPE

**We can  
furnish this  
outfit  
complete for  
\$48.00**



We guarantee these outfits absolutely as to their practicability and proper working when installed according to our instructions. The feature of this outfit is the combination pump. It pumps both air and water. It does this, however, in different cylinders. You will note by a close study of the cut that there is a small projecting air cylinder at the end of the water cylinder; both of these working in connection with the common lever handle and the pump can be regulated so that it can pump water only or both air and water at the same time. When you consider the fact that it is really only necessary to supply air to the tank at very long intervals, probably once a week or so, you will readily see that there is very little necessity of any automatic contrivance for regulating the air supply and you can just pump the air when it is necessary.

All you have to do is note the pressure in the tank and the height of the water line as indicated by the gauge glass on the tank. These are the only positive indications. The comparison of the pressure in the tank with the height of the water line will invariably tell you when it is necessary to pump in more air. When you are not pumping air with the air cylinder, the air piston simply runs idle in the cylinder, then when you want to supply air it simply requires the adjustment of two small valves and then operate the pump and you will be pumping air and water at the same time. When sufficient air has been supplied to the tank, simply reverse the two valves and the pump will pump water only. Nothing simpler could be devised. Does away with the unnecessary expense of separate air pump and we guarantee satisfaction.

**Outfit No. AP21 with 24x6 foot tank. Tank designed to stand on end. Complete only.....\$48.00**

This outfit consists of our special air and water pump and a 150 gallon special Chicago Air Pressure Tank, 24 inches in diameter and 6 feet high. It is tapped to stand on end unless otherwise specified and includes a 1-inch Jenkins disc check valve, 1-inch galvanized gate valve, 1 1/2-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge, and two 1/2-inch check valves and the various 1/2-inch fittings and couplings required to connect into the air pipe. Price of this outfit, complete as described.....\$48.00

**Outfit No. AP22 with 24x8 foot tank. Designed to lay horizontally. Complete only.....\$55.00**

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 24 inches in diameter, 8 feet high, tapped to lay horizontally unless otherwise specified, capacity 195 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch galvanized gate valve, 1 1/2-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rod, pressure gauge and two 1/2-inch check valves and the various 1/2-inch fittings and couplings required to connect into the air pipe. Price of this outfit, complete, as described.....\$55.00

**Outfit No. AP23 with 30x6 foot tank. Designed to stand on end. Complete only.....\$56.00**

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 30 inches in diameter, 6 feet high, tapped to stand on end unless otherwise specified, capacity 220 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch galvanized gate valve, 1 1/2-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rod, pressure gauge and two 1/2-inch check valves and the various 1/2-inch fittings and couplings required to connect into the air pipe. Price of this outfit, complete as described.....\$56.00

**Outfit No. AP24 with 30x8 foot tank. Designed to lay horizontally. Complete only.....\$65.00**

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 30 inches in diameter, 8 feet long, tapped to lay horizontally unless otherwise specified, capacity 295 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch galvanized gate valve, 1 1/2-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two 1/2-inch check valves and the various 1/2-inch fittings and couplings required to connect into the air pipe. Price of this outfit, complete, as described.....\$65.00

**Outfit No. AP25 with 30x10 foot tank. Designed to lay horizontally. Complete only.....\$72.00**

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 30 inches in diameter by 10 feet, tapped to lay horizontally unless otherwise specified, capacity 365 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch galvanized gate valve, 1 1/2-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two 1/2-inch check valves and the various 1/2-inch fittings and couplings required to connect into the air pipe. Price of this outfit, complete as described.....\$72.00

**Outfit No. AP26 with 36x6 foot tank. Designed to stand on end. Complete only.....\$67.00**

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 36 inches in diameter by 6 feet, tapped to stand on end unless otherwise specified, capacity 315 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch galvanized gate valve, 1 1/2-inch foot

valve and strainer, water gauge with water glass, guard rods and gauge cocks, pressure gauge and two 1/2-inch check valves and the various 1/2-inch fittings and couplings required to connect into the air pipe. Price of this outfit, complete as described.....\$67.00

**Outfit No. AP27 with 36x8 foot tank. Designed to lay horizontally. Complete only.....\$77.00**

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 36 inches in diameter by 8 feet, tapped to lay horizontally unless otherwise specified, capacity 220 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch galvanized gate valve, 1 1/2-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two 1/2-inch check valves and the various 1/2-inch fittings and couplings required to fit into the air pipe. Price of this outfit, complete as described.....\$77.00

**Outfit No. AP 28 with 42x8 foot tank. Designed to lay horizontally. Complete only.....\$88.00**

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 42 inches in diameter by 8 feet, tapped to lay horizontally unless otherwise specified, capacity 575 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch galvanized gate valve, 1 1/2-inch foot valve and strainer, water gauge with gauge cocks and guard rods, pressure gauge and two 1/2-inch check valves and the various 1/2-inch fittings and couplings required to connect into the air pipe. Price of this outfit, complete as described.....\$88.00

**Outfit No. AP29 with 42x14 foot tank. Designed to lay horizontally. Complete only.....\$131.00**

This outfit consists of our special air and water pump and a special Chicago Air Pressure Tank, 42 inches in diameter by 14 feet, tapped to lay horizontally unless otherwise specified, capacity 1,000 gallons, and includes a 1-inch Jenkins disc check valve, 1-inch galvanized gate valve, 1 1/2-inch foot valve and strainer, water gauge with water glass, gauge cocks and guard rods, pressure gauge and two 1/2-inch check valves and the various 1/2-inch fittings and couplings required to connect into the air pipe. Price of this outfit, complete as described.....\$131.00

## NEW CHICAGO AIR PRESSURE TANKS. LARGE SIZE.

Diameter in Feet.	Length in Feet.	Capacity in Gals.	Price.
5	20	2950	\$325.00
5	22	3250	340.00
5	24	4525	350.00
6	24	5075	445.00
6	30	6350	500.00
7	24	6900	570.00
7	28	8060	600.00
8	36	13500	725.00

We have a number of first-class second-hand tanks in stock at the present time suitable for use with the above pumping outfit on which we quote the following net cash prices, subject to prior sale.

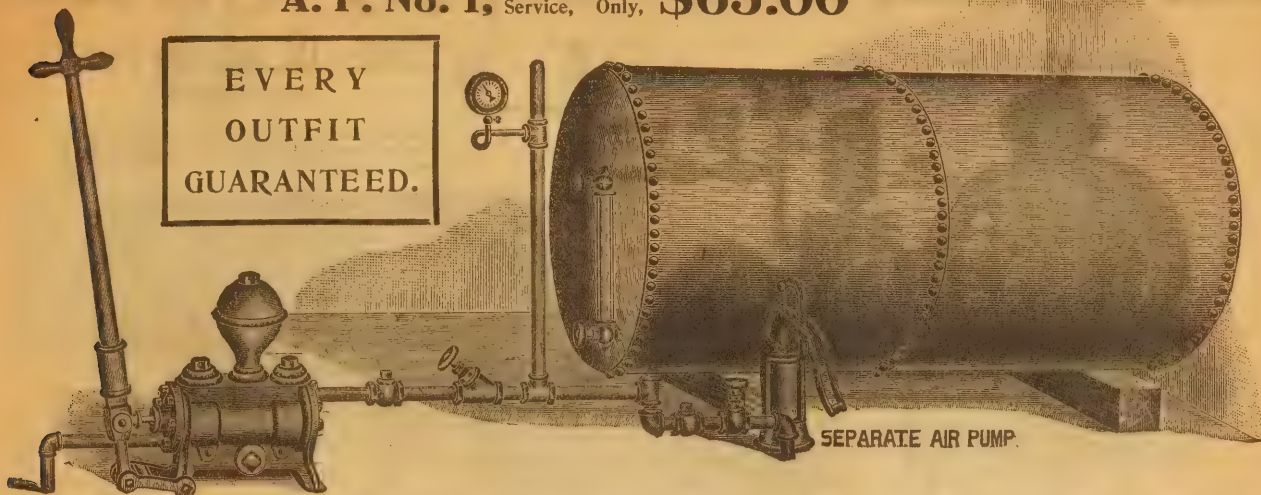
**One 36"x6', 315 gallon capacity, extra heavy, tested to 150 lbs. pressure, guaranteed.....\$40.00**  
**One 36"x12', 630 gallon capacity, same description and test as above.....62.00**  
**One 48"x28', 2,600 gallon capacity, horizontal seams, double riveted, same description and test as above.....200.00**  
**One 72"x16', 3,550 gallon capacity, horizontal seams, double riveted, tested to 100 lbs. and guaranteed.....200.00**



# OUR SEPARATE AIR AND WATER PUMP SYSTEM

A. P. No. 1, Complete for Service, Only, \$65.00

EVERY  
OUTFIT  
GUARANTEED.



## DOUBLE ACTING WATER PUMP

Water in abundance in every part of your house. Every convenience of a modern city residence in your home. You can supply hot and cold water to your bath room, to your kitchen sink, to your laundry, water under pressure both hot and cold any place in your house. Ten minutes' pumping every day fulfils all average requirements. This is just the right size outfit for the average family.

Outfit A. P. No. 1 consists of the following:

One Chicago air pressure tank, 30 inches in diameter by 8 feet long, tapped to lay horizontally; total capacity 295 gallons.

One special horizontal cylinder double acting hand force pump, brass lined, as shown in Water Pump 4-A-302 in our catalog.

One No. 600 hand air force pump.

One air pressure gauge.

One water gauge with water glass and guard rods.

One 1-inch gate valve.

One 1-inch check valve.

One 1-inch globe valve for air pipe.

One 1-inch check valve for air pipe.

One 1 1/2-inch foot valve and strainer.

Price for this outfit complete, as described every item strictly brand new and perfect, tank guaranteed air tight. \$65.00

Note that the pump furnished with all outfits on this page is our Horizontal Cylinder Pump. This pump is not adapted for taking water from wells where the water is over 20 feet below the top of the well; where you have a well in which the water is lower down than this, it will be necessary for you to use one of our deep well force pumps, with which the cylinder can be lowered down in the water and the water forced up. If you have a deep well, be sure to advise us and we will line up a special outfit for you with a deep well pump that we will recommend to give you satisfaction.

### OUTFIT No. A. P. 2.

Complete outfit, same as above, with 36-inch x 8-foot tank.

only. \$78.00

This outfit consists of a special Chicago air pressure tank 36 inches x 8 feet, capacity 425 gallons.

One special horizontal cylinder double acting hand force pump, brass lined.

One No. 600 hand air force pump.

One air pressure gauge.

One water gauge with water glass and guard rods.

Special price of this outfit.

One 1-inch gate valve.

One 1-inch check valve.

One 1-inch globe valve for the air pipe.

One 1-inch check valve for the air pipe.

One 1 1/2-inch foot valve and strainer.

### OUTFIT No. A. P. 5.

This outfit consists of the following:

One new extra heavy Chicago air pressure tank, tested to 125 pounds air pressure and guaranteed tight. Tank 42 inches in diameter, 14 feet long, capacity 1,000 gallons.

One special horizontal cylinder, double acting, brass lined force pump.

Price of above outfit.

One No. 600 hand air pump.

One air pressure gauge.

One water gauge with water glass and guard rods.

One special 1-inch Gold galvanized gate valve for discharge pipe.

One 1-inch check valve.

One 1-inch check valve for air pipe.

One 1-inch globe valve for air pipe.

### OUTFIT No. A. P. 6.

This outfit consists of the following:

One special Chicago air pressure tank, 42 inches by 16 feet, capacity 1,150 gallons, tested to 125 pounds air pressure and guaranteed tight.

One special double acting horizontal cylinder, brass lined force pump.

One No. 600 hand air pump.

Price of above outfit.

One air pressure gauge.

One water gauge with water glass and guard rods.

One special 1-inch galvanized gate valve for discharge pipe.

One 1-inch check valve.

One 1-inch valve for air pipe.

One 1-inch globe valve for air pipe.

PRICES OF OUR CHICAGO AIR PRESSURE TANKS, NEW, FOR AIR PRESSURE WATER SUPPLY SYSTEMS. PRICES ARE F. O. B. OUR FACTORY NEAR CHICAGO.

Diameter in Inches	Length in feet.	THICKNESS. Shell. Heads.	Weights.	Capacity in Gallons.	Net Price	Diameter in inches	Length in feet	THICKNESS Shell. Head.	Weight.	Capacity in Gallons.	Price.
24	6	1/2"	445	145	\$ 29.62	42	10	1/2"	1,650	720	\$ 84.12
24	8	1/2"	560	195	37.09	42	12	1/2"	1,900	865	104.25
24	10	1/2"	675	245	41.55	42	14	1/2"	2,200	1,000	115.48
30	6	1/2"	560	220	38.60	42	16	1/2"	2,400	1,150	125.19
30	8	1/2"	700	295	47.54	48	10	1/2"	2,066	1,000	119.21
30	10	1/2"	870	365	54.25	48	12	1/2"	2,320	1,130	132.65
30	12	1/2"	900	440	60.97	48	14	1/2"	2,610	1,300	145.35
36	6	1/2"	750	315	49.03	48	16	1/2"	2,900	1,500	161.27
36	8	1/2"	900	420	57.99	48	18	1/2"	3,600	1,700	186.40
36	10	1/2"	1,050	525	68.44	48	20	1/2"	3,950	1,880	208.81
36	12	1/2"	1,200	630	70.78	48	24	1/2"	4,650	2,260	231.96
42	8	1/2"	1,450	575	70.78						

Manheads \$10.00 extra. Water Gauges, etc., are not included in the above prices. All tanks tested to 125 lbs. air pressure, and guaranteed.



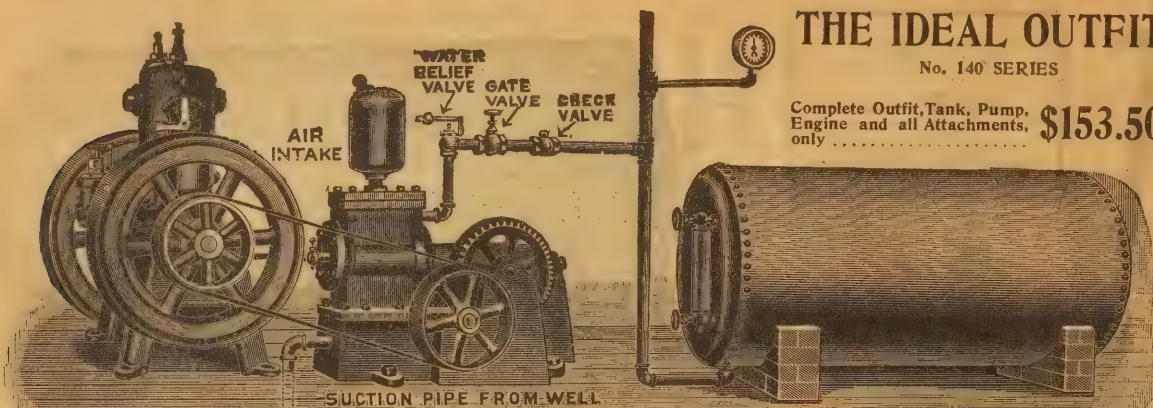
# Gasoline Engine Driven Air Pressure

# Water Supply Systems

## THE IDEAL OUTFIT

No. 140 SERIES

Complete Outfit, Tank, Pump,  
Engine and all Attachments, **\$153.50**  
only .....



**Positively no manual labor required, except to start the engine when it is necessary to pump water. With one of these outfits installed in your home the matter of water supply will be the least of your troubles. NO MANUAL EXERTION WHATEVER.**

The engine furnished with these outfits are our special "Superior" Gasoline Engine; positively the most simple and least liable to get out of order of any engine on the market at the present time. One month's trial of this engine will sufficiently convince you of its superiority over any other engine you may have used. We back these engines with our absolute guarantee as to just what they will do and if they do not come up to our representations to the fullest extent, you have the privilege to return them to us at our expense and we will refund your money in full.

We furnish these outfits in three different sizes. If you are not sure which size will be best suited to your requirements, drop us a line, give us a statement of the conditions that will have to be met, with how much water you will use per day, etc., and we will be glad to recommend an outfit for you that we will guarantee to meet your requirements.

The pump furnished in these outfits is just as high-grade in every way as the engine. We have made a careful study of this problem and we can safely say that we have secured for this line of outfits the best combination of engine and pump on the market at the present time, at any price. The pump furnished with these outfits is a Geared Belt Driven Pump; belt connection being made between engine and pump as shown.

The special construction of this pump has been tried and proven to give the highest point of efficiency and the design gives absolute rigidity and reduces vibration of the working parts to a minimum. This pump is positively one of the highest grade pumps on the market at the present time. No air pump of any kind is necessary with this pump, as the mere opening of the small valve in the back of the cylinder head will cause the pump to pump in both air and water at the same time. As soon as you have enough air pumped into the tank all you have to do is close this valve and the pump will pump water only. Every part of this apparatus is absolutely brand new and perfect in every way.

Remember, you are taking no chances, whatever, in ordering one of these outfits. They have been fully tried and proven and we know just what they will do. We give you a written guarantee with every one of these outfits; furnish you complete detailed instructions covering the entire apparatus, stating just how to run the engine and pump, etc., and you will be able to install the entire apparatus yourself with our complete plans. What a great convenience one of these outfits would be in your home, absolutely no pumping required, no more trouble in regard to the matter of supplying water to your plumbing fixtures than if you were located in a large city. The cost of gasoline and expense of keeping these outfits running is insignificant. As above stated, these outfits are made in three sizes.

The engine is built on the vertical plan, which has been proven to be the best design for a small engine of this kind. The piston lubricates better than on a horizontal engine and it is much easier to adjust the connecting rod, valve gears or any part of the entire engine, which from constant use require attention. Every part of this engine is simple and requires very little adjustment. A careful examination of the cut will very easily demonstrate that the number of working parts on the engine have been reduced to the fewest possible number.

These engines are built on the two cycle principle, having an impulse at every second revolution. The piston on the first outward stroke draws through the intake valve a charge of gas which is automatically regulated by the throttle valve. On the return stroke of the piston the gas is compressed and ignited by an electric spark which drives the piston on the next outward or power stroke. The return of the piston drives out the burned gas through the exhaust valve; then the operation is repeated. If the work being performed does not require continuous ignition of gas in the cylinder, the governor will hold open the exhaust valve, and lock the admitting valve. In this manner the speed of the engine is controlled and the fuel consumption is regulated to the closest economy.

**DURABILITY.** Our Superior Gasoline Engines are well and substantially constructed of the best material, by skilled mechanics, and are so durable that we have no hesitancy in extending to users our five-year-guarantee. The engines are built on the interchangeable plan; all parts being made from jigs and templates; each and every part of the same kind being perfect duplicates, so that in future years, repairs that may be required can readily be replaced without delay.

**SIMPLICITY.** All the working parts of the Superior Gasoline Engines are exposed to view. The duty of each is plainly and readily understood by the users of the engine. The construction of our engine is such that they combine great strength and durability. It has been our constant study to do away with all extra parts and simplify the construction as much as possible.

## Special Notice

The Pump furnished with this outfit is not designed for deep wells, the cylinder being entirely above the ground makes it impossible to raise water a greater vertical distance than 25 feet, this being the limit to which the atmospheric pressure will raise the water under ordinary conditions. If the level of the water in your well is greater than 25 feet, we recommend a regular deep well pump, one on which the cylinder can be lowered down into the water and the water forced up, instead of depending upon the atmospheric pressure to raise it. These deep well pumps you will find illustrated and listed elsewhere in this catalog. If the water in your well is more than 25 feet below the surface of the ground, do not fail to advise us. We will fully consider your conditions and we will line up an outfit for you, using proper size tank and proper horse power engine, and we will make you a complete proposition on the entire equipment. If you have not made up your mind as to what size tank you want, if you will give us some kind of an idea as to how much water is used per day, we will figure the proper capacity out for you.

Our No. 140 series Gasoline Engine Driven Air Pressure Outfit, as described above, is furnished in three different sizes. Please note that this equipment includes the following:

Complete engine, ready for action, with all attachments.

Complete pump with all attachments.

Complete tank with all attachments. This to include pressure gauge, check valves, gate valve, water relief valve, etc., everything with the exception of the actual piping. It also includes belt of proper size to connect pump with engine.

Note the following special low prices on these complete outfits. Note that we also give in this list the price of the outfit without the tank in each case, so that in the event of your wanting a larger or smaller size tank than we have lined up in these outfits, you can make the change accordingly, and you can figure the tank in on the basis of the net prices, as quoted separately on these tanks, on the following pages:

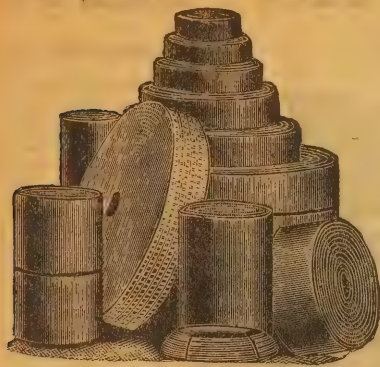
No.	H. P. of engine	Pump cap. gal. per hour	Weight of engine	Weight of pump	Size of pump cylinder	Length of pump stroke	Size of suet. opening on pump	Size of discharge opening on pump	Size of pulley on pump	Ratio of gearing on pump	Size tank	Price eng. pump & attachments only. No tank	Price complete outfit
141	2	1200	500	250	3 1/2"	5"	1 1/2"	1"	12x3"	5 to 1	36x8	\$ 98.50	\$153.50
142	4	2200	700	450	4 1/2"	6"	2"	1 1/2"	14x4"	5 to 1	42x10	149.50	225.00

## Electric Motor Driven Outfits

We can furnish above outfits with either Direct or Alternating Turn Motors instead of the Gasoline Engine, if desired and we will be glad to quote you fully on a complete Electrical Motor Driven Outfit on request. We are fully equipped to furnish you with everything to complete the entire installation of one of these Electrical Driven Outfits and we can give you complete instructions for installing. We guarantee satisfaction.



# OUR BELTING DEPARTMENT. WE CARRY IN STOCK THREE COMPLETE LINES OF RUBBER BELTING.



Each grade is carefully made up of the best canvas and rubber that can be secured with the view of giving our customers the best possible values and satisfaction. In making our selection we earnestly advise that you note carefully the general purposes for which we recommend the use of our various grades and order accordingly. By following this suggestion we can without a shadow of doubt, supply your requirements and will guarantee our different grades to give full satisfaction if used for the purpose designated.

antee our different grades to give full satisfaction if used for the purpose designated.

**ENDLESS RUBBER BELT.** We show the usual widths and lengths generally carried in stock, which are described under No. 3-A-7. In addition we can make up any width or length in either of our Standard, Star or Premier brands that you may require. These would be made up specially on your order and shipped direct from our factory. Always allow three feet extra on account of the lap, and bear in mind that owing to the fact that belts of this kind are made up specially, it will cause a delay of about one week.

**STITCHED RUBBER BELTS.** These we can also furnish in either Standard, Star or Premier brands, which would necessarily make up specially, and would therefore be subject to the same delay in shipping as the endless belts. For stitching, be sure and allow ten per cent extra in cost to cover stitching. The stitching, which runs the long way of the belt, is done before the outer rubber covering is applied and serves to greatly strengthen the belt and increase its lasting qualities.

## STANDARD BRAND RUBBER BELT.

**No. 3-A-1.** This belt is recommended only for light work, and is generally termed an agricultural belt. It can also be used for conveyor purposes, but only for light loads.

The best low priced belt on the market.

Width Inches	2 Ply Per Ft. Cents	3 Ply Per Ft. Cents	4 Ply Per Ft. Cents	5 Ply Per Ft. Cents	6 Ply Per Ft. Cents
1	14	21			
1½	22	31			
2	31	42	51		
2½	42	51	61		
3	51	61	71		
3½	61	71	81		
4	71	81	91		
4½	81	91	101		
5	10	12			
5½	11	13			
6	13	16	19		
7	15	18	23		
8	18	21	26	32	
9	21	25	30	36	
10	27	33	40		
12	33	41	49		
14	39	48	58		

## STAR BRAND RUBBER BELT.

**No. 3-A-2.** The best general purpose belt on the market for light and medium power and conveying purposes. We do not recommend this belt for heavy work, such as saw mills or other work where belting is required to run constantly and transmit heavy horse power. But for other general purposes it will give you first-class service.

Width Inches	3 Ply Per Ft. Cents	4 Ply Per Ft. Cents	5 Ply Per Ft. Cents	6 Ply Per Ft. Cents
1	31	41		
1½	41	51		
2	51	61		
2½	61	71		
3	71	81		
3½	81	91		
4	91	101	131	
4½	101	111	141	
5	12	15	18	22
5½	13	16	23	27
6	15	18	23	27
6½	18	22	27	32
7	21	25	32	38
8	25	30	37	44
9	31	36	41	50
10	36	42	47	56
12	46	52	57	68
14	54	61	67	82
16	62	71	79	94

## PREMIER BRAND RUBBER BELT.

**No. 3-A-3.** We recommend this belt for all heavy power transmission. It is used extensively in saw mills, quarries and other places where a belt is subjected to hard usage. Bear in mind that in order to produce your full required horse power that a good belt, one that is strong and tough, is just as necessary as an engine that will deliver the power required. Therefore if you require a first class belt, buy our Premier Brand and by doing so you will do away with your belt troubles.

Width Inches	4 Ply Per Ft. Cents	5 Ply Per Ft. Cents	6 Ply Per Ft. Cents
4	\$0.21	\$0.26	\$0.32
5	.26	.33	.39
6	.31	.39	.46
7	.37	.46	.55
8	.42	.53	.63
9	.48	.59	.71
10	.56	.67	.80
11	.59	.74	.89
12	.65	.81	.98
13	.71	.88	1.07
14	.77	.96	1.16
15	.83	1.04	1.25
16	.89	1.11	1.34

## RED STITCHED CANVAS BELT.



**No. 3-A-4.** Brand new and guaranteed. Made of heavy canvas, woven very hard, giving it great strength. The rows of stitching are very close so that the plies will not separate. It is painted red with a special composition which makes it waterproof, and it is not affected by heat or cold. This belt is thoroughly stretched during the process of manufacture. A belt for saw mills, mines, quarries, etc.

Width Inches	4 Ply Per Ft. Cents	6 Ply Per Ft. Cents	Width Inches	4 Ply Per Ft. Cents	6 Ply Per Ft. Cents
1½	4	8	8	21½	32
2	5½	9	9	25	36
2½	7	10	10	27	40
3	8½	12	12	33	48
3½	9½	13½	13	35	54
4	11	16	14	38	58
4½	12	18	15	40	62
5	13½	20	16	42	66
6	16½	24	18	48	74
7	19	26			

## NEW LEATHER BELTS.



**No. 3-A-5.** We are constantly buying at Manufacturers', Sheriff's, Receivers' and other sales, high grade Leather Belting, suitable for factories, mills and all general purposes. Our method of buying in this line enables us to offer leather belting, much of which is the product of the best manufacturers in this line. We guarantee satisfaction on any leather belt that you buy from us. We will ship on approval, and if belt is not satisfactory, return it to us after inspection.

**Note—**If you require a belt to run on quarter twist, add 20 per cent.

Width Inches	Single Thick Per Ft.	Double Thick Per Ft.	Width Inches	Single Thick Per Ft.	Double Thick Per Ft.
1	\$0.06		4	.24	\$0.48
1½	.07½		4½	.27	.54
2	.09		5	.30	.60
2½	.10½		6	.36	.72
3	.12	.24	7	.42	.84
3½	.14	.28	8	.48	.96
4	.15	.30	9	.54	1.08
4½	.17	.34	10	.60	1.20
5	.18	.36	12	.72	1.44
5½	.21	.42	14	.84	1.68

## SECOND HAND LEATHER BELTS.

We have but little trouble to convince people who have been in the habit of purchasing second hand leather belts, of the desirability of using them even in preference to buying new belts.

We rebuild second hand belts and ship practically new belts, with the exception that the stock, of course, is second hand.

We have in our employ an expert belt man who has made a life-long study of furnishing large, second-hand belts to people who know what belts mean. Many of our customers who have been here in the house will recognize the truth of this statement, and will know that the knowledge possessed by our belt man is second to none in the business.

We make these belts endless to order, and in ordering these Endless Belts be sure to allow three feet for lap. We will rivet these belts, making nominal charge for same. **No. 3-A-6.**

Width Inches	Single Thick Per Ft.	Double Thick Per Ft.	Width Inches	Single Thick Per Ft.	Double Thick Per Ft.
1	\$0.04½		8		\$0.76
1½	.06		9		.86
2	.07		10		.96
2½	.08		11		1.05
3	.09½	.19	12		1.15
3½	.10½	.21	13		1.26
4	.12	.24	14		1.35
4½	.13	.26	15		1.44
5	.14	.28	16		1.54
5½	.16½	.33	17		1.63
6	.19	.38	18		1.72
6½	.21	.42	19		1.83
7	.24	.48	20		1.92
7½	.26	.52	21		2.00
8	.29	.58	22		2.10
8½		.62	23		2.20
9		.66	24		2.30

## ENDLESS STITCHED RUBBER BELTS.



**No. 3-A-7.** We offer these belts to fill the demand for endless rubber thresher belts, which are used to considerable extent in some localities. These belts are made of the best material and workmanship. However, rubber belts are not guaranteed for thresher purposes and for this purpose we recommend the use of stitched canvas belts. Actual lengths three feet shorter than specified. **All 4 Ply.**

Width Inches	120 Length Feet	130	140	150	160
6	\$30.00	\$32.50	\$35.00	\$37.50	\$40.00
7	34.80	37.70	40.60	43.50	46.40
8	40.80	44.20	47.60	51.00	54.40
9	51.60	55.90	60.30	64.70	69.00

## ENDLESS RED STITCHED CANVAS BELTS.

**No. 3-A-8.** Brand new and guaranteed. These belts are especially recommended for threshers or for any other purpose where a belt is exposed to the weather. Actual lengths are three feet shorter than specified as it requires the price of three feet for lap and labor in making belts endless. **All 4 Ply.**

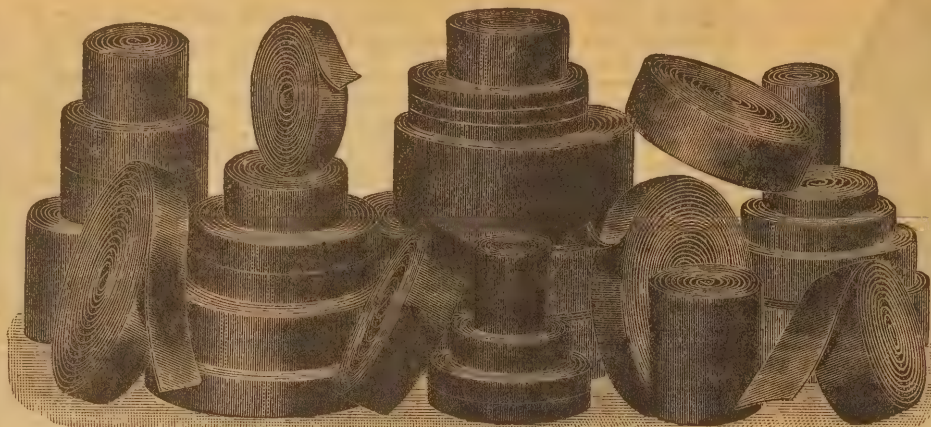
Width Inches	80 Length Feet	100	120	130	140	150	160
6	\$13.20	\$16.50	\$19.75	\$21.40	\$23.00	\$24.75	\$26.40
7	15.20	19.00	22.80	24.70	26.60	28.50	30.40
8	17.20	21.50	25.80	27.95	30.10	32.25	34.40
9	20.00	25.00	30.00	32.30	35.00	37.50	40.00





# RUBBER BELT BARGAIN LIST.

Any of the belts contained in this list are without a question a bargain, and should you purchase one of these belts and it is not satisfactory you can return it to us.



Should you not find the exact length that you require, we will willingly cut any longer belt where it does not leave us with too short a piece, and for this reason the prices quoted on remnants are per foot.

These remnants are all brand new and are partially made up of our Standard, Star, and Premier brands. In addition to the regular brands of belting we are constantly buying special lots of high grade belts. These special lots you will understand, we cannot put out under our regular brands, and we are therefore obliged to make a special offer of them.

In offering these belts we make no distinction as to grade, but offer the various widths and plys at a low flat price. We would suggest that in ordering belts from this list that you state the purpose for which it is to be used. The belts contained in our remnant list sell very rapidly, and sending in orders for belts selected from this list, we urge you to give a first, second and third choice. This will within all probability assure you of getting one of these choices without making it necessary for us to delay the order on account of writing you that we are out of the belt that you had selected.

In ordering refer to Rubber Belt Bargain List.

Width Length Price					Width Length Price					Width Length Price					Width Length Price					
No.	A-	Inches	Ply	Feet Per Ft.	No.	A-	Inches	Ply	Feet Per Ft.	No.	A-	Inches	Ply	Feet Per Ft.	No.	A-	Inches	Ply	Feet Per Ft.	
No. A-1	1	1	2	20	\$0.014	No. A-57	2	4	54	\$0.042	No. A-113	24	2	32	\$0.04	No. A-169	1 1/2	3	55	\$0.03
No. A-2	2	1	2	24	.01	No. A-58	2	4	57	.04	No. A-114	24	2	34	.04	No. A-170	2	3	19	.03
No. A-3	3	1	2	27	.01	No. A-59	2	4	60	.04	No. A-115	24	2	36	.04	No. A-171	2	3	21	.03
No. A-4	4	1	2	30	.01	No. A-60	1 1/2	2	17	.02	No. A-116	24	2	37	.04	No. A-172	2	3	24	.03
No. A-5	5	1	2	33	.01	No. A-61	1 1/2	2	19	.02	No. A-117	24	2	39	.04	No. A-173	2	3	27	.03
No. A-6	6	1	2	35	.01	No. A-62	1 1/2	2	21	.02	No. A-118	24	2	41	.04	No. A-174	2	3	33	.03
No. A-7	7	1	2	41	.01	No. A-63	1 1/2	2	25	.02	No. A-119	24	2	43	.04	No. A-175	2	3	35	.03
No. A-8	8	1	2	46	.01	No. A-64	1 1/2	2	27	.02	No. A-120	24	2	47	.04	No. A-176	2	3	37	.03
No. A-9	9	1	2	50	.01	No. A-65	1 1/2	2	29	.02	No. A-121	24	2	50	.04	No. A-177	2	3	39	.03
No. A-10	10	1	2	55	.01	No. A-66	1 1/2	2	31	.02	No. A-122	24	2	51	.04	No. A-178	2	3	44	.04
No. A-11	11	1	2	57	.01	No. A-67	1 1/2	2	34	.02	No. A-123	24	2	53	.04	No. A-179	2	3	47	.03
No. A-12	12	1	2	60	.01	No. A-68	1 1/2	2	40	.02	No. A-124	24	2	57	.04	No. A-180	2	3	50	.03
No. A-13	13	5	3	20	.09	No. A-69	1 1/2	2	45	.02	No. A-125	24	2	62	.04	No. A-181	2	3	55	.03
No. A-14	14	5	3	24	.09	No. A-70	1 1/2	2	50	.02	No. A-126	24	2	71	.04	No. A-182	2	3	59	.03
No. A-15	15	5	3	27	.09	No. A-71	1 1/2	2	54	.02	No. A-127	24	2	78	.04	No. A-183	2	3	64	.03
No. A-16	16	5	3	29	.09	No. A-72	1 1/2	2	65	.02	No. A-128	3	2	20	.04	No. A-184	2	3	72	.03
No. A-17	17	5	3	31	.09	No. A-73	1 1/2	2	16	.02	No. A-129	3	2	22	.04	No. A-185	3	3	15	.06
No. A-18	18	5	3	36	.09	No. A-74	1 1/2	2	19	.02	No. A-130	3	2	24	.04	No. A-186	3	3	17	.06
No. A-19	19	5	3	40	.09	No. A-75	1 1/2	2	20	.02	No. A-131	3	2	27	.04	No. A-187	3	3	19	.06
No. A-20	20	5	3	45	.09	No. A-76	1 1/2	2	21	.02	No. A-132	3	2	29	.04	No. A-188	3	3	20	.06
No. A-21	21	5	3	50	.09	No. A-77	1 1/2	2	23	.02	No. A-133	3	2	31	.04	No. A-189	3	3	22	.06
No. A-22	22	5	3	53	.09	No. A-78	1 1/2	2	26	.02	No. A-134	3	2	34	.04	No. A-190	3	3	25	.06
No. A-23	23	5	3	57	.09	No. A-79	1 1/2	2	27	.02	No. A-135	3	2	37	.04	No. A-191	3	3	29	.06
No. A-24	24	5	3	61	.09	No. A-80	1 1/2	2	30	.02	No. A-136	3	2	41	.04	No. A-192	3	3	30	.06
No. A-25	25	5	3	69	.09	No. A-81	1 1/2	2	31	.02	No. A-137	3	2	43	.04	No. A-193	3	3	34	.06
No. A-26	26	5	3	76	.09	No. A-82	1 1/2	2	34	.02	No. A-138	3	2	45	.04	No. A-194	3	3	37	.06
No. A-27	27	5	3	85	.09	No. A-83	1 1/2	2	36	.02	No. A-139	3	2	47	.04	No. A-195	3	3	39	.06
No. A-28	28	6	3	20	.10	No. A-84	1 1/2	2	39	.02	No. A-140	3	2	49	.04	No. A-196	3	3	41	.06
No. A-29	29	6	3	21	.10	No. A-85	1 1/2	2	41	.02	No. A-141	3	2	56	.04	No. A-197	3	3	44	.06
No. A-30	30	6	3	24	.10	No. A-86	1 1/2	2	45	.02	No. A-142	3	2	63	.04	No. A-198	3	3	47	.06
No. A-31	31	6	3	27	.10	No. A-87	1 1/2	2	47	.02	No. A-143	3	2	74	.04	No. A-199	3	3	49	.06
No. A-32	32	6	3	30	.10	No. A-88	1 1/2	2	52	.02	No. A-144	1	3	15	.01	No. A-200	3	3	54	.06
No. A-33	33	6	3	31	.10	No. A-89	1 1/2	2	60	.02	No. A-145	1	3	20	.01	No. A-201	3	3	57	.06
No. A-34	34	6	3	33	.10	No. A-90	1 1/2	2	80	.02	No. A-146	1	3	25	.01	No. A-202	3	3	60	.06
No. A-35	35	6	3	37	.10	No. A-91	2	2	15	.03	No. A-147	1	3	27	.01	No. A-203	3	3	63	.06
No. A-36	36	6	3	42	.10	No. A-92	2	2	18	.03	No. A-148	1	3	30	.01	No. A-204	3	3	65	.06
No. A-37	37	6	3	46	.10	No. A-93	2	2	20	.03	No. A-149	1	3	35	.01	No. A-205	3	3	69	.06
No. A-38	38	6	3	49	.10	No. A-94	2	2	22	.03	No. A-150	1	3	42	.01	No. A-206	3	3	70	.06
No. A-39	39	6	3	50	.10	No. A-95	2	2	24	.03	No. A-151	1	3	46	.01	No. A-207	3 1/2	3	16	.06
No. A-40	40	6	3	57	.10	No. A-96	2	2	25	.03	No. A-152	1	3	49	.01	No. A-208	3 1/2	3	19	.06
No. A-41	41	6	3	59	.10	No. A-97	2	2	28	.03	No. A-153	1	3	54	.01	No. A-209	3 1/2	3	20	.06
No. A-42	42	6	3	60	.10	No. A-98	2	2	30	.03	No. A-154	1	3	64	.01	No. A-210	3 1/2	3	23	.06
No. A-43	43	6	3	63	.10	No. A-99	2	2	33	.03	No. A-155	1 1/2	3	16	.03	No. A-211	3 1/2	3	25	.06
No. A-44	44	6	3	65	.10	No. A-100	2	2	37	.03	No. A-156	1 1/2	3	17	.03	No. A-212	3 1/2	3	26	.06
No. A-45	45	2	4	15	.04	No. A-101	2	2	40	.03	No. A-157	1 1/2	3	19	.03	No. A-213	3 1/2	3	29	.06
No. A-46	46	2	4	16	.04	No. A-102	2	2	42	.03	No. A-158	1 1/2	3	23	.03	No. A-214	3 1/2	3	30	.06
No. A-47	47	2	4	20	.04	No. A-103	2	2	48	.03	No. A-159	1 1/2	3	25	.03	No. A-215	3 1/2	3	34	.06
No. A-48	48	2	4	23	.04	No. A-104	2	2	56	.03	No. A-160	1 1/2	3	27	.03	No. A-216	3 1/2	3	35	.06
No. A-49	49	2	4	27	.04	No. A-105	2	2	63	.03	No. A-161	1 1/2	3	31	.03	No. A-217	3 1/2	3	37	.06
No. A-50	50	2	4	30	.04	No. A-106	2	2	71	.03	No. A-162	1 1/2	3	34	.03	No. A-218	3 1/2	3	39	.06
No. A-51	51	2	4	31	.04	No. A-107	2 1/2	2	16	.04	No. A-163	1 1/2	3	37	.03	No. A-219	3 1/2	3	41	.06
No. A-52	52	2	4	36	.04	No. A-108	2 1/2	2	17	.04	No. A-164	1 1/2	3	40	.03	No. A-220	3 1/2	3	43	.06
No. A-53	53	2	4	42	.04	No. A-109	2 1/2	2	21	.04	No. A-165	1 1/2	3	41	.03	No. A-221	3 1/2	3	47	.06
No. A-54	54	2	4	43	.04	No. A-110	2 1/2	2	24	.04	No. A-166	1 1/2	3	43	.03	No. A-222	3 1/2	3	50	.06
No. A-55	55	2	4	49	.04	No. A-111	2 1/2	2	28	.04	No. A-167	1 1/2	3	44	.03	No. A-223	3 1/2	3	59	.06
No. A-56	56	2	4	53	.04	No. A-112	2 1/2	2	30	.04	No. A-168	1 1/2	3	51	.03	No. A-224	3 1/2	3	64	.06



## RUBBER BELT BARGAIN LIST—Continued.

Width Length Price				Width Length Price				Width Length Price				Width Length Price			
Inches Ply Feet Per Ft.				Inches Ply Feet Per Ft.				Inches Ply Feet Per Ft.				Inches Ply Feet Per Ft.			
No. A-225	3	3	70.06	No. A-328	3	4	82.08	No. A-431	8	4	49.30	No. A-534	12	4	136.30
No. A-226	3	3	79.06	No. A-329	3	4	86.08	No. A-432	8	4	50.19	No. A-535	12	4	141.30
No. A-227	3	3	83.06	No. A-330	3	4	89.08	No. A-433	8	4	56.19	No. A-536	12	4	149.30
No. A-228	3	3	92.06	No. A-331	3	4	90.08	No. A-434	8	4	61.19	No. A-537	12	4	152.30
No. A-229	4	3	17.07	No. A-332	3	4	95.08	No. A-435	8	4	68.19	No. A-538	12	4	162.30
No. A-230	4	3	19.07	No. A-333	4	4	16.09	No. A-436	8	4	70.19	No. A-539	12	4	165.30
No. A-231	4	3	24.07	No. A-334	4	4	17.09	No. A-437	8	4	74.19	No. A-540	12	4	165.30
No. A-232	4	3	25.07	No. A-335	4	4	19.09	No. A-438	8	4	76.19	No. A-541	13	4	17.32
No. A-233	4	3	30.07	No. A-336	4	4	25.09	No. A-439	8	4	79.19	No. A-542	13	4	19.32
No. A-234	4	3	34.07	No. A-337	4	4	29.09	No. A-440	8	4	84.19	No. A-543	13	4	25.32
No. A-235	4	3	39.07	No. A-338	4	4	30.09	No. A-441	4	4	88.19	No. A-544	13	4	29.32
No. A-236	4	3	40.07	No. A-339	4	4	37.09	No. A-442	8	4	90.19	No. A-545	13	4	33.32
No. A-237	4	3	45.07	No. A-340	4	4	39.09	No. A-443	8	4	94.19	No. A-546	13	4	38.32
No. A-238	4	3	47.07	No. A-341	4	4	46.09	No. A-444	8	4	95.19	No. A-547	13	4	42.32
No. A-239	4	3	50.07	No. A-342	4	4	48.09	No. A-445	9	4	16.22	No. A-548	13	4	47.32
No. A-240	4	3	55.07	No. A-343	4	4	54.10	No. A-446	9	4	18.22	No. A-549	13	4	54.32
No. A-241	4	3	60.07	No. A-344	4	4	60.10	No. A-447	9	4	20.22	No. A-550	13	4	61.32
No. A-242	4	3	65.07	No. A-345	4	4	66.10	No. A-448	9	4	23.22	No. A-551	13	4	63.32
No. A-243	4	3	105.07	No. A-346	4	4	66.11	No. A-449	9	4	27.22	No. A-552	13	4	72.32
No. A-244	4	3	16.08	No. A-347	4	4	69.10	No. A-450	9	4	30.22	No. A-553	13	4	78.32
No. A-245	4	3	20.08	No. A-348	4	4	73.10	No. A-451	9	4	31.22	No. A-554	13	4	81.32
No. A-246	4	3	25.08	No. A-349	4	4	75.10	No. A-452	9	4	36.22	No. A-555	13	4	87.32
No. A-247	4	3	29.08	No. A-350	4	4	78.10	No. A-453	9	4	39.22	No. A-556	13	4	90.32
No. A-248	4	3	31.08	No. A-351	4	4	81.10	No. A-454	9	4	42.22	No. A-557	13	4	104.32
No. A-249	4	3	35.08	No. A-352	4	4	84.10	No. A-455	9	4	47.22	No. A-558	13	4	115.32
No. A-250	4	3	37.08	No. A-353	4	4	84.10	No. A-456	9	4	51.22	No. A-559	13	4	126.32
No. A-251	4	3	40.08	No. A-354	5	4	17.11	No. A-457	9	4	56.22	No. A-560	13	4	132.32
No. A-252	4	3	45.08	No. A-355	5	4	18.11	No. A-458	9	4	60.22	No. A-561	13	4	143.32
No. A-253	4	3	50.08	No. A-356	5	4	22.11	No. A-459	9	4	63.22	No. A-562	13	4	150.32
No. A-254	4	3	63.08	No. A-357	5	4	27.11	No. A-460	9	4	66.22	No. A-563	13	4	156.32
No. A-255	4	3	77.08	No. A-358	5	4	33.11	No. A-461	9	4	69.22	No. A-564	13	4	159.32
No. A-256	4	3	85.08	No. A-359	5	4	35.11	No. A-462	9	4	72.22	No. A-565	13	4	163.32
No. A-257	2	4	15.05	No. A-360	5	4	36.11	No. A-463	9	4	74.22	No. A-566	13	4	165.32
No. A-258	2	4	19.05	No. A-361	5	4	39.11	No. A-464	9	4	76.22	No. A-567	14	4	19.35
No. A-259	2	4	20.05	No. A-362	5	4	43.11	No. A-465	10	4	17.24	No. A-568	14	4	21.35
No. A-260	2	4	22.05	No. A-363	5	4	44.11	No. A-466	10	4	18.24	No. A-569	14	4	26.35
No. A-261	2	4	26.05	No. A-364	5	4	49.11	No. A-467	10	4	23.24	No. A-570	14	4	29.35
No. A-262	2	4	29.05	No. A-365	5	4	56.11	No. A-468	10	4	25.24	No. A-571	14	4	30.35
No. A-263	2	4	31.05	No. A-366	5	4	58.11	No. A-469	10	4	29.24	No. A-572	14	4	38.35
No. A-264	2	4	34.05	No. A-367	5	4	60.11	No. A-470	10	4	32.24	No. A-573	14	4	41.35
No. A-265	2	4	35.05	No. A-368	5	4	64.11	No. A-471	10	4	36.24	No. A-574	14	4	44.35
No. A-266	2	4	36.05	No. A-369	5	4	68.11	No. A-472	10	4	37.24	No. A-575	14	4	49.35
No. A-267	2	4	39.05	No. A-370	5	4	73.11	No. A-473	10	4	41.24	No. A-576	14	4	51.35
No. A-268	2	4	42.05	No. A-371	5	4	76.11	No. A-474	10	4	46.24	No. A-577	14	4	56.35
No. A-269	2	4	47.05	No. A-372	5	4	81.11	No. A-475	10	4	49.24	No. A-578	14	4	62.35
No. A-270	2	4	52.05	No. A-373	5	4	88.11	No. A-476	10	4	50.24	No. A-579	14	4	69.35
No. A-271	2	4	55.05	No. A-374	5	4	90.11	No. A-477	10	4	54.24	No. A-580	14	4	70.35
No. A-272	2	4	57.05	No. A-375	5	4	97.11	No. A-478	10	4	57.24	No. A-581	14	4	78.35
No. A-273	2	4	60.05	No. A-376	5	4	100.11	No. A-479	10	4	60.24	No. A-582	14	4	80.35
No. A-274	2	4	61.05	No. A-377	6	4	15.14	No. A-480	10	4	63.24	No. A-583	14	4	86.35
No. A-275	2	4	66.05	No. A-378	6	4	17.14	No. A-481	10	4	65.24	No. A-584	14	4	89.35
No. A-276	2	4	69.05	No. A-379	6	4	26.14	No. A-482	10	4	72.24	No. A-585	14	4	91.35
No. A-277	2	4	72.05	No. A-380	6	4	29.14	No. A-483	10	4	79.24	No. A-586	14	4	95.35
No. A-278	2	4	75.05	No. A-381	6	4	30.14	No. A-484	10	4	81.24	No. A-587	15	4	20.38
No. A-279	3	4	16.07	No. A-382	6	4	34.14	No. A-485	10	4	86.24	No. A-588	15	4	22.38
No. A-280	3	4	17.07	No. A-383	6	4	37.14	No. A-486	10	4	90.24	No. A-589	15	4	29.38
No. A-281	3	4	19.07	No. A-384	6	4	42.14	No. A-487	10	4	92.24	No. A-590	15	4	31.38
No. A-282	3	4	24.07	No. A-385	6	4	48.14	No. A-488	11	4	20.26	No. A-591	15	4	36.38
No. A-283	3	4	27.07	No. A-386	6	4	51.14	No. A-489	11	4	21.26	No. A-592	15	4	40.38
No. A-284	3	4	30.07	No. A-387	6	4	55.14	No. A-490	11	4	25.26	No. A-593	15	4	44.38
No. A-285	3	4	33.07	No. A-388	6	4	59.14	No. A-491	11	4	29.26	No. A-594	15	4	48.38
No. A-286	3	4	36.07	No. A-389	6	4	63.14	No. A-492	11	4	32.26	No. A-595	15	4	54.38
No. A-287	3	4	39.07	No. A-390	6	4	67.14	No. A-493	11	4	37.26	No. A-596	15	4	58.38
No. A-288	3	4	40.07	No. A-391	6	4	70.14	No. A-494	11	4	41.26	No. A-597	15	4	60.38
No. A-289	3	4	44.07	No. A-392	6	4	75.14	No. A-495	11	4	44.26	No. A-598	15	4	63.38
No. A-290	3	4	47.07	No. A-393	6	4	79.14	No. A-496	11	4	48.26	No. A-599	16	4	72.41
No. A-291	3	4	49.07	No. A-394	6	4	83.14	No. A-497	11	4	50.26	No. A-600	16	4	79.41
No. A-292	3	4	52.07	No. A-395	6	4	91.14	No. A-498	11	4	54.26	No. A-601	16	4	83.41
No. A-293	3	4	56.07	No. A-396	6	4	99.14	No. A-499	11	4	55.26	No. A-602	16	4	88.41
No. A-294	3	4	58.07	No. A-397	6	4	110.14	No. A-500	11	4	60.26	No. A-603	16	4	94.41
No. A-295	3	4	63.07	No. A-398	6	4	110.14	No. A-501	11	4	66.26	No. A-604	16	4	100.41
No. A-296	3	4	74.07	No. A-399	7	4	17.16	No. A-502	11	4	69.26	No. A-605	16	4	111.41
No. A-297	3	4	78.07	No. A-400	7	4	18.16	No. A-503	11	4	72.26	No. A-606	16	4	116.41
No. A-298	3	4	81.07	No. A-401	7	4	20.16	No. A-504	11	4	75.26	No. A-607	16	4	123.41



# RUBBER BELT BARGAIN LIST—Continued.

Width Length Price				Width Length Price				Width Length Price				Width Length Price			
Inches	Ply	Feet	Per Ft.	Inches	Ply	Feet	Per Ft.	Inches	Ply	Feet	Per Ft.	Inches	Ply	Feet	Per Ft.
No. A-637	5	5	140. \$0.14	No. A-715	12	5	30. \$0.36	No. A-793	6	6	42. \$0.21	No. A-871	10	6	103. \$0.36
No. A-638	6	5	20. .17	No. A-716	12	5	35. .36	No. A-794	6	6	43. .21	No. A-872	10	6	108. .36
No. A-639	6	5	26. .17	No. A-717	12	5	39. .36	No. A-795	6	6	47. .21	No. A-873	10	6	110. .36
No. A-640	6	5	29. .17	No. A-718	12	5	41. .36	No. A-796	6	6	51. .21	No. A-874	12	6	31. .45
No. A-641	6	5	31. .17	No. A-719	12	5	45. .36	No. A-797	6	6	56. .21	No. A-875	12	6	32. .45
No. A-642	6	5	36. .17	No. A-720	12	5	48. .36	No. A-798	6	6	62. .21	No. A-876	12	6	35. .45
No. A-643	6	5	39. .17	No. A-721	12	5	54. .36	No. A-799	6	6	70. .21	No. A-877	12	6	41. .45
No. A-644	6	5	40. .17	No. A-722	12	5	63. .36	No. A-800	6	6	73. .21	No. A-878	12	6	45. .45
No. A-645	6	5	45. .17	No. A-723	12	5	69. .36	No. A-801	6	6	75. .21	No. A-879	12	6	48. .45
No. A-646	6	5	48. .17	No. A-724	12	5	72. .36	No. A-802	6	6	81. .21	No. A-880	12	6	50. .45
No. A-647	6	5	52. .17	No. A-725	12	5	80. .36	No. A-803	6	6	87. .21	No. A-881	12	6	52. .45
No. A-648	6	5	55. .17	No. A-726	12	5	83. .36	No. A-804	6	6	89. .21	No. A-882	12	6	58. .45
No. A-649	6	5	63. .17	No. A-727	12	5	89. .36	No. A-805	6	6	95. .21	No. A-883	12	6	61. .45
No. A-650	6	5	71. .17	No. A-728	12	5	94. .36	No. A-806	6	6	95. .21	No. A-884	12	6	67. .45
No. A-651	6	5	75. .17	No. A-729	12	5	102. .36	No. A-807	7	6	22. .25	No. A-885	12	6	68. .45
No. A-652	6	5	78. .17	No. A-730	12	5	108. .36	No. A-808	7	6	24. .25	No. A-886	12	6	73. .45
No. A-653	6	5	82. .17	No. A-731	12	5	117. .36	No. A-809	7	6	27. .25	No. A-887	12	6	79. .45
No. A-654	6	5	89. .17	No. A-732	12	5	123. .36	No. A-810	7	6	32. .25	No. A-888	12	6	80. .45
No. A-655	6	5	94. .17	No. A-733	12	5	129. .36	No. A-811	7	6	33. .25	No. A-889	12	6	84. .45
No. A-656	6	5	101. .17	No. A-734	12	5	136. .36	No. A-812	7	6	38. .25	No. A-890	12	6	85. .45
No. A-657	6	5	106. .17	No. A-735	12	5	26. .44	No. A-813	7	6	40. .25	No. A-891	12	6	91. .45
No. A-658	6	5	115. .17	No. A-736	14	5	28. .44	No. A-814	7	6	44. .25	No. A-892	12	6	96. .45
No. A-659	6	5	119. .17	No. A-737	14	5	33. .44	No. A-815	7	6	51. .25	No. A-893	12	6	100. .45
No. A-660	6	5	128. .17	No. A-738	14	5	39. .44	No. A-816	7	6	59. .25	No. A-894	12	6	113. .45
No. A-661	6	5	132. .17	No. A-739	14	5	42. .44	No. A-817	7	6	62. .25	No. A-895	12	6	121. .45
No. A-662	6	5	135. .17	No. A-740	14	5	46. .44	No. A-818	7	6	68. .25	No. A-896	12	6	128. .45
No. A-663	8	5	21. .24	No. A-741	14	5	49. .44	No. A-819	7	6	71. .25	No. A-897	12	6	132. .45
No. A-664	8	5	27. .24	No. A-742	14	5	54. .44	No. A-820	7	6	76. .25	No. A-898	12	6	140. .45
No. A-665	8	5	31. .24	No. A-743	14	5	62. .44	No. A-821	7	6	79. .25	No. A-899	12	6	25. .53
No. A-666	8	5	35. .24	No. A-744	14	5	68. .44	No. A-822	7	6	84. .25	No. A-900	14	6	29. .53
No. A-667	8	5	40. .24	No. A-745	14	5	73. .44	No. A-823	7	6	91. .25	No. A-901	14	6	32. .53
No. A-668	8	5	41. .24	No. A-746	14	5	75. .44	No. A-824	7	6	96. .25	No. A-902	14	6	33. .53
No. A-669	8	5	49. .24	No. A-747	14	5	79. .44	No. A-825	7	6	101. .25	No. A-903	14	6	37. .53
No. A-670	8	5	53. .24	No. A-748	14	5	84. .44	No. A-826	7	6	106. .25	No. A-904	14	6	40. .53
No. A-671	8	5	58. .24	No. A-749	14	5	90. .44	No. A-827	7	6	110. .25	No. A-905	14	6	44. .53
No. A-672	8	5	63. .24	No. A-750	14	5	95. .44	No. A-828	8	6	23. .29	No. A-906	14	6	49. .53
No. A-673	8	5	70. .24	No. A-751	14	5	99. .44	No. A-829	8	6	25. .29	No. A-907	14	6	56. .53
No. A-674	8	5	75. .24	No. A-752	14	5	104. .44	No. A-830	8	6	32. .29	No. A-908	14	6	58. .53
No. A-675	8	5	79. .24	No. A-753	14	5	116. .44	No. A-831	8	6	38. .29	No. A-909	14	6	61. .53
No. A-676	8	5	81. .24	No. A-754	14	5	125. .44	No. A-832	8	6	40. .29	No. A-910	14	6	63. .53
No. A-677	8	5	85. .24	No. A-755	14	5	131. .44	No. A-833	8	6	46. .29	No. A-911	14	6	67. .53
No. A-678	8	5	91. .24	No. A-756	14	5	145. .44	No. A-834	8	6	52. .29	No. A-912	14	6	72. .53
No. A-679	8	5	99. .24	No. A-757	14	5	153. .44	No. A-835	8	6	55. .29	No. A-913	14	6	77. .53
No. A-680	8	5	103. .24	No. A-758	14	5	30. .50	No. A-836	8	6	59. .29	No. A-914	14	6	80. .53
No. A-681	8	5	116. .24	No. A-759	14	5	42. .50	No. A-837	8	6	60. .29	No. A-915	14	6	83. .53
No. A-682	8	5	125. .24	No. A-760	16	5	35. .50	No. A-838	8	6	63. .29	No. A-916	14	6	88. .53
No. A-683	8	5	132. .24	No. A-761	16	5	46. .50	No. A-839	8	6	78. .29	No. A-917	14	6	91. .53
No. A-684	8	5	135. .24	No. A-762	16	5	53. .50	No. A-840	8	6	80. .29	No. A-918	14	6	94. .53
No. A-685	10	5	24. .31	No. A-763	16	5	55. .50	No. A-841	8	6	85. .29	No. A-919	14	6	95. .53
No. A-686	10	5	29. .31	No. A-764	16	5	59. .50	No. A-842	8	6	91. .29	No. A-920	14	6	96. .53
No. A-687	10	5	33. .31	No. A-765	16	5	62. .50	No. A-843	8	6	96. .29	No. A-921	14	6	99. .53
No. A-688	10	5	40. .31	No. A-766	16	5	68. .50	No. A-844	8	6	100. .29	No. A-922	16	6	32. .58
No. A-689	10	5	44. .31	No. A-767	16	5	71. .50	No. A-845	8	6	111. .29	No. A-923	16	6	39. .58
No. A-690	10	5	46. .31	No. A-768	16	5	79. .50	No. A-846	8	6	123. .29	No. A-924	16	6	41. .58
No. A-691	10	5	51. .31	No. A-769	16	5	85. .50	No. A-847	8	6	136. .29	No. A-925	16	6	45. .58
No. A-692	10	5	58. .31	No. A-770	16	5	93. .50	No. A-848	8	6	140. .29	No. A-926	16	6	50. .58
No. A-693	10	5	60. .31	No. A-771	16	5	99. .50	No. A-849	8	6	153. .29	No. A-927	16	6	56. .58
No. A-694	10	5	63. .31	No. A-772	16	5	116. .50	No. A-850	8	6	160. .29	No. A-928	16	6	61. .58
No. A-695	10	5	72. .31	No. A-773	16	5	124. .50	No. A-851	8	6	25. .36	No. A-929	16	6	63. .58
No. A-696	10	5	75. .31	No. A-774	16	5	132. .50	No. A-852	8	6	26. .36	No. A-930	16	6	68. .58
No. A-697	10	5	79. .31	No. A-775	16	5	143. .50	No. A-853	10	6	33. .36	No. A-931	16	6	72. .58
No. A-698	10	5	81. .31	No. A-776	16	5	145. .50	No. A-854	10	6	34. .36	No. A-932	16	6	75. .58
No. A-699	10	5	86. .31	No. A-777	16	5	149. .50	No. A-855	10	6	39. .36	No. A-933	16	6	76. .58
No. A-700	10	5	90. .31	No. A-778	16	5	151. .50	No. A-856	10	6	45. .36	No. A-934	16	6	80. .58
No. A-701	10	5	94. .31	No. A-779	16	5	158. .50	No. A-857	10	6	48. .36	No. A-935	16	6	82. .58
No. A-702	10	5	97. .31	No. A-780	16	5	162. .50	No. A-858	10	6	51. .36	No. A-936	16	6	84. .58
No. A-703	10	5	110. .31	No. A-781	16	5	165. .50	No. A-859	10	6	67. .36	No. A-937	16	6	91. .58
No. A-704	10	5	116. .31	No. A-782	16	6	15. .21	No. A-860	10	6	69. .36	No. A-938	16	6	96. .58
No. A-705	10	5	124. .31	No. A-783	16	6	19. .21	No. A-861	10	6	72. .36	No. A-939	16	6	99. .58
No. A-706	10	5	129. .31	No. A-784	16	6	20. .21	No. A-862	10	6	78. .36	No. A-940	16	6	108. .58
No. A-707	10	5	133. .31	No. A-785	16	6	23. .21	No. A-863	10	6	81. .36	No. A-941	16	6	114. .58
No. A-708	10	5	141. .31	No. A-786	16	6	26. .21	No. A-864	10	6	86. .36	No. A-942	16	6	123. .58
No. A-709	10	5	142. .31	No. A-787	16	6	29. .21	No. A-865	10	6	92. .36	No. A-943	16	6	130. .58
No. A-710	10	5	149. .31	No. A-788	16	6	32. .21	No. A-866	10	6	94. .36	No. A-944	16	6	134. .58
No. A-711	10	5	150. .31	No. A-789	16	6	35. .21	No. A-867	10	6	99. .36	No. A-945	16	6	139. .58
No. A-712	12	5	24. .36	No. A-790	16	6	38. .21	No. A-868	10	6	101. .36	No. A-946	16	6	144. .58
No. A-713	12	5	26. .36	No. A-791	16	6	38. .21	No. A-869	10	6	101. .36	No. A-947	16	6	150. .58
No. A-714	12	5	29. .36	No. A-792	16	6	38. .21	No. A-870	10	6	101. .36	No. A-948	16	6	150. .58

## RED STITCHED CANVAS BELTING.

### REMNANT LIST.

Width Length Price				Width Length Price				Width Length Price				Width Length Price			
No.	A-	Inches	Ply Feet Per Ft.	No.	A-	Inches	Ply Feet Per Ft.	No.	A-	Inches	Ply Feet Per Ft.	No.	A-	Inches	Ply Feet Per Ft.
No. A-949	1 1/2	4	15. \$0.03	No. A-963	1 1/2	4	65. \$0.03	No. A-977	2	4	56. \$0.05	No. A-991	2 1/2	4	125. \$0.05
No. A-950	1 1/2	4	17. .03	No. A-964	1 1/2	4	70. .03	No. A-978	2	4	59. .05	No. A-992	2 1/2	4	18. .06
No. A-951	1 1/2	4	17. .03	No. A-965	1 1/2	4	76. .03	No. A-979	2	4	64. .05	No. A-993	2 1/2	4	20. .06
No. A-952	1 1/2	4	23. .03	No. A-966	1 1/2	4	79. .03	No. A-980	2	4	70. .05	No. A-994	2 1/2	4	23. .06
No. A-953	1 1/2	4	27. .03	No. A-967	2	4	16. .05	No. A-981	2	4	75. .05	No. A-995	2 1/2	4	29. .06
No. A-954	1 1/2	4	29. .03	No. A-968	2	4	17. .05	No. A-982	2	4	79. .05	No. A-996	2 1/2	4	35. .06
No. A-955	1 1/2	4	33. .03	No. A-969	2	4	20. .05	No. A-983	2	4	83. .05	No. A-997	2 1/2	4	38. .06
No. A-956	1 1/2	4	38. .03	No. A-970	2	4	26. .05	No. A-984	2	4	88. .05	No. A-998	2 1/2	4	41. .06
No. A-957	1 1/2	4	42. .03	No. A-971	2	4	31. .05	No. A-985	2	4	92. .05	No. A-999	2 1/2	4	47. .06
No. A-958	1 1/2	4	47. .03	No. A-972	2	4	38. .05	No. A-986	2	4	99. .05	No. A-1000	2 1/2	4	50. .06
No. A-959	1 1/2	4	51. .03	No. A-973	2	4	39. .05	No. A-987	2	4	105. .05	No. A-1001	2 1/2	4	55. .06
No. A-960	1 1/2	4	55. .03	No. A-974	2	4	43. .05	No. A-988	2	4	109. .05	No. A-1002	2 1/2	4	64. .06
No. A-961	1 1/2	4	58. .03	No. A-975	2	4	46. .05	No. A-989	2	4	114. .05	No. A-1003	2 1/2	4	72. .06
No. A-962	1 1/2	4	62. .03	No. A-976	2	4	52. .05	No. A-990	2	4	123. .05	No. A-1004	2 1/2	4	75. .06



## RED STITCHED CANVAS BELTING. REMNANT LIST-Continued

Width Length Price				Width Length Price				Width Length Price				Width Length Price			
Inches	Ply	Feet	Per Ft.	Inches	Ply	Feet	Per Ft.	Inches	Ply	Feet	Per Ft.	Inches	Ply	Feet	Per Ft.
No. A-1005.	2 1/2	4	79.	No. A-2009.	6	4	60.	No. A-2113.	10	4	129.	No. A-2217.	7	6	71.
No. A-1006.	2 1/2	4	82.	No. A-2010.	6	4	61.	No. A-2114.	10	4	138.	No. A-2218.	7	6	75.
No. A-1007.	2 1/2	4	86.	No. A-2011.	6	4	63.	No. A-2115.	10	4	142.	No. A-2219.	7	6	81.
No. A-1008.	2 1/2	4	88.	No. A-2012.	6	4	69.	No. A-2116.	10	4	150.	No. A-2220.	7	6	87.
No. A-1009.	2 1/2	4	93.	No. A-2013.	6	4	74.	No. A-2117.	12	4	33.	No. A-2221.	7	6	91.
No. A-1010.	2 1/2	4	99.	No. A-2014.	6	4	79.	No. A-2118.	12	4	35.	No. A-2222.	7	6	96.
No. A-1011.	2 1/2	4	107.	No. A-2015.	6	4	82.	No. A-2119.	12	4	37.	No. A-2223.	7	6	100.
No. A-1012.	2 1/2	4	109.	No. A-2016.	6	4	88.	No. A-2120.	12	4	43.	No. A-2224.	8	6	18.
No. A-1013.	2 1/2	4	116.	No. A-2017.	6	4	93.	No. A-2121.	12	4	45.	No. A-2225.	8	6	23.
No. A-1014.	2 1/2	4	122.	No. A-2018.	6	4	96.	No. A-2122.	12	4	51.	No. A-2226.	8	6	26.
No. A-1015.	2 1/2	4	125.	No. A-2019.	6	4	101.	No. A-2123.	12	4	56.	No. A-2227.	8	6	32.
No. A-1016.	3	4	17.	No. A-2020.	6	4	107.	No. A-2124.	12	4	60.	No. A-2228.	8	6	35.
No. A-1017.	3	4	20.	No. A-2021.	6	4	109.	No. A-2125.	12	4	63.	No. A-2229.	8	6	37.
No. A-1018.	3	4	24.	No. A-2022.	6	4	115.	No. A-2126.	12	4	72.	No. A-2230.	8	6	41.
No. A-1019.	3	4	29.	No. A-2023.	6	4	122.	No. A-2127.	12	4	76.	No. A-2231.	8	6	48.
No. A-1020.	3	4	33.	No. A-2024.	6	4	127.	No. A-2128.	12	4	80.	No. A-2232.	8	6	53.
No. A-1021.	3	4	38.	No. A-2025.	6	4	132.	No. A-2129.	12	4	82.	No. A-2233.	8	6	59.
No. A-1022.	3	4	41.	No. A-2026.	6	4	135.	No. A-2130.	12	4	86.	No. A-2234.	8	6	64.
No. A-1023.	3	4	47.	No. A-2027.	7	4	20.	No. A-2131.	12	4	93.	No. A-2235.	8	6	72.
No. A-1024.	3	4	57.	No. A-2028.	7	4	22.	No. A-2132.	12	4	101.	No. A-2236.	8	6	79.
No. A-1025.	3	4	63.	No. A-2029.	7	4	26.	No. A-2133.	12	4	112.	No. A-2237.	8	6	86.
No. A-1026.	3	4	72.	No. A-2030.	7	4	29.	No. A-2134.	12	4	115.	No. A-2238.	8	6	89.
No. A-1027.	3	4	75.	No. A-2031.	7	4	33.	No. A-2135.	12	4	119.	No. A-2239.	8	6	92.
No. A-1028.	3	4	79.	No. A-2032.	7	4	35.	No. A-2136.	12	4	126.	No. A-2240.	8	6	96.
No. A-1029.	3	4	81.	No. A-2033.	7	4	38.	No. A-2137.	12	4	134.	No. A-2241.	8	6	100.
No. A-1030.	3	4	86.	No. A-2034.	7	4	40.	No. A-2138.	12	4	137.	No. A-2242.	8	6	105.
No. A-1031.	3	4	90.	No. A-2035.	7	4	44.	No. A-2139.	4	6	18.	No. A-2243.	8	6	109.
No. A-1032.	3	4	93.	No. A-2036.	7	4	49.	No. A-2140.	4	6	23.	No. A-2244.	8	6	110.
No. A-1033.	3	4	95.	No. A-2037.	7	4	55.	No. A-2141.	4	6	29.	No. A-2245.	9	6	24.
No. A-1034.	3 1/2	4	17.	No. A-2038.	7	4	61.	No. A-2142.	4	6	29.	No. A-2246.	9	6	28.
No. A-1035.	3 1/2	4	18.	No. A-2039.	7	4	66.	No. A-2143.	4	6	32.	No. A-2247.	9	6	32.
No. A-1036.	3 1/2	4	22.	No. A-2040.	7	4	72.	No. A-2144.	4	6	36.	No. A-2248.	9	6	33.
No. A-1037.	3 1/2	4	26.	No. A-2041.	7	4	79.	No. A-2145.	4	6	41.	No. A-2249.	9	6	39.
No. A-1038.	3 1/2	4	29.	No. A-2042.	7	4	86.	No. A-2146.	4	6	48.	No. A-2250.	9	6	43.
No. A-1039.	3 1/2	4	33.	No. A-2043.	7	4	86.	No. A-2147.	4	6	52.	No. A-2251.	9	6	45.
No. A-1040.	3 1/2	4	38.	No. A-2044.	7	4	91.	No. A-2148.	4	6	55.	No. A-2252.	9	6	52.
No. A-1041.	3 1/2	4	40.	No. A-2045.	7	4	95.	No. A-2149.	4	6	59.	No. A-2253.	9	6	56.
No. A-1042.	3 1/2	4	44.	No. A-2046.	8	4	18.	No. A-2150.	4	6	64.	No. A-2254.	9	6	66.
No. A-1043.	3 1/2	4	48.	No. A-2047.	8	4	20.	No. A-2151.	4	6	68.	No. A-2255.	9	6	68.
No. A-1044.	3 1/2	4	52.	No. A-2048.	8	4	23.	No. A-2152.	4	6	75.	No. A-2256.	9	6	72.
No. A-1045.	3 1/2	4	57.	No. A-2049.	8	4	26.	No. A-2153.	4	6	79.	No. A-2257.	9	6	75.
No. A-1046.	3 1/2	4	61.	No. A-2050.	8	4	32.	No. A-2154.	4	6	81.	No. A-2258.	9	6	78.
No. A-1047.	3 1/2	4	65.	No. A-2051.	8	4	43.	No. A-2155.	4	6	86.	No. A-2259.	9	6	83.
No. A-1048.	3 1/2	4	68.	No. A-2052.	8	4	45.	No. A-2156.	4	6	90.	No. A-2260.	9	6	86.
No. A-1049.	3 1/2	4	81.	No. A-2053.	8	4	51.	No. A-2157.	5	6	20.	No. A-2261.	9	6	90.
No. A-1050.	3 1/2	4	89.	No. A-2054.	8	4	62.	No. A-2158.	5	6	22.	No. A-2262.	9	6	91.
No. A-1051.	3 1/2	4	92.	No. A-2055.	8	4	68.	No. A-2159.	5	6	26.	No. A-2263.	9	6	96.
No. A-1052.	3 1/2	4	96.	No. A-2056.	8	4	69.	No. A-2160.	5	6	33.	No. A-2264.	9	6	97.
No. A-1053.	3 1/2	4	102.	No. A-2057.	8	4	72.	No. A-2161.	5	6	38.	No. A-2265.	10	6	25.
No. A-1054.	3 1/2	4	109.	No. A-2058.	8	4	78.	No. A-2162.	5	6	44.	No. A-2266.	10	6	27.
No. A-1055.	3 1/2	4	110.	No. A-2059.	8	4	83.	No. A-2163.	5	6	49.	No. A-2267.	10	6	31.
No. A-1056.	4	4	19.	No. A-2060.	8	4	85.	No. A-2164.	5	6	51.	No. A-2268.	10	6	36.
No. A-1057.	4	4	20.	No. A-2061.	8	4	89.	No. A-2165.	5	6	54.	No. A-2269.	10	6	36.
No. A-1058.	4	4	24.	No. A-2062.	8	4	92.	No. A-2166.	5	6	59.	No. A-2270.	10	6	47.
No. A-1059.	4	4	29.	No. A-2063.	8	4	100.	No. A-2167.	5	6	60.	No. A-2271.	10	6	49.
No. A-1060.	4	4	33.	No. A-2064.	8	4	116.	No. A-2168.	5	6	61.	No. A-2272.	10	6	51.
No. A-1061.	4	4	38.	No. A-2065.	8	4	126.	No. A-2169.	5	6	67.	No. A-2273.	10	6	55.
No. A-1062.	4	4	41.	No. A-2066.	8	4	128.	No. A-2170.	5	6	76.	No. A-2274.	10	6	58.
No. A-1063.	4	4	49.	No. A-2067.	8	4	133.	No. A-2171.	5	6	82.	No. A-2275.	10	6	60.
No. A-1064.	4	4	50.	No. A-2068.	8	4	136.	No. A-2172.	5	6	87.	No. A-2276.	10	6	64.
No. A-1065.	4	4	56.	No. A-2069.	8	4	142.	No. A-2173.	5	6	90.	No. A-2277.	10	6	68.
No. A-1066.	4	4	58.	No. A-2070.	8	4	148.	No. A-2174.	5	6	94.	No. A-2278.	10	6	72.
No. A-1067.	4	4	62.	No. A-2071.	8	4	150.	No. A-2175.	5	6	99.	No. A-2279.	10	6	73.
No. A-1068.	4	4	67.	No. A-2072.	9	4	30.	No. A-2176.	5	6	104.	No. A-2280.	10	6	78.
No. A-1069.	4	4	80.	No. A-2073.	9	4	33.	No. A-2177.	5	6	108.	No. A-2281.	10	6	85.
No. A-1070.	4	4	83.	No. A-2074.	9	4	38.	No. A-2178.	5	6	110.	No. A-2282.	10	6	92.
No. A-1071.	4	4	89.	No. A-2075.	9	4	41.	No. A-2179.	6	6	18.	No. A-2283.	10	6	97.
No. A-1072.	4	4	92.	No. A-2076.	9	4	47.	No. A-2180.	6	6	20.	No. A-2284.	10	6	104.
No. A-1073.	4	4	96.	No. A-2077.	9	4	54.	No. A-2181.	6	6	26.	No. A-2285.	10	6	116.
No. A-1074.	4	4	100.	No. A-2078.	9	4	63.	No. A-2182.	6	6	29.	No. A-2286.	10	6	125.
No. A-1075.	4	4	112.	No. A-2079.	9	4	69.	No. A-2183.	6	6	33.	No. A-2287.	10	6	131.
No. A-1076.	5	4	16.	No. A-2080.	9	4	70.	No. A-2184.	6	6	38.	No. A-2288.	12	6	24.
No. A-1077.	5	4	18.	No. A-2081.	9	4	75.	No. A-2185.	6	6	42.	No. A-2289.	12	6	28.
No. A-1078.	5	4	19.	No. A-2082.	9	4	76.	No. A-2186.	6	6	46.	No. A-2290.	12	6	32.
No. A-1079.	5	4	23.	No. A-2083.	9	4	82.	No. A-2187.	6	6	49.	No. A-2291.	12	6	36.
No. A-1080.	5	4	27.	No. A-2084.	9	4	86.	No. A-2188.	6	6	50.	No. A-2292.	12	6	41.
No. A-1081.	5	4	32.	No. A-2085.	9	4	89.	No. A-2189.	6	6	54.	No. A-2293.	12	6	47.
No. A-1082.	5	4	39.	No. A-2086.	9	4	91.	No. A-2190.	6	6	62.	No. A-2294.	12	6	53.
No. A-1083.	5	4	43.	No. A-2087.	9	4	96.	No. A-2191.	6	6	65.	No. A-2295.	12	6	64.
No. A-1084.	5	4	45.	No. A-2088.	9	4	101.	No. A-2192.	6	6	71.	No. A-2296.	12	6	76.
No. A-1085.	5	4	48.	No. A-2089.	9	4	108.	No. A-2193.	6	6	76.	No. A-2297.	12	6	79.
No. A-1086.	5	4	50.	No. A-2090.	9	4	110.	No. A-2194.	6	6	84.	No. A-2298.	12	6	82.
No. A-1087.	5	4	54.	No. A-2091.	10	4	23.	No. A-2195.	6	6	86.	No. A-2299.	12	6	85.
No. A-1088.	5	4	59.	No. A-2092.	10	4	26.	No. A-2196.	6	6	89.	No. A-2300.	12	6	86.
No. A-1089.	5	4	64.	No. A-2093.	10	4	29.	No. A-2197.	6	6	93.	No. A-2301.	12	6	91.
No. A-1090.	5	4	71.	No. A-2094.	10	4	33.	No. A-2198.	6	6	98.	No. A-2302.	12	6	96.
No. A-1091.	5	4	78.	No. A-2095.	10	4	38.	No. A-2199.	6	6	111.	No. A-2303.	12	6	97.
No. A-1092.	5	4	82.	No. A-2096.	10	4	42.	No. A-2200.	6	6	116.	No. A-2304.	12	6	102.
No. A-1093.	5	4	86.	No. A-2097.	10	4	47.	No. A-2201.	6	6	119.	No. A-2305.	12	6	111.
No. A-1094.	5	4	97.	No. A-2098.	10	4	49.	No. A-2202.	6	6	128.	No. A-2306.	12	6	118.
No. A-1095.	5	4	103.	No. A-2099.	10	4									



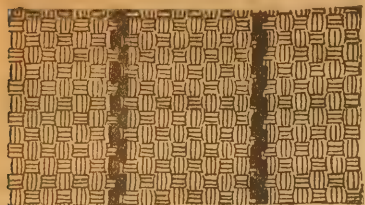
# SECOND-HAND LEATHER BELT REMNANT BARGAIN LIST.

These belts we secure from manufacturing plants which we are constantly dismantling. They are in good, second hand condition, thoroughly overhauled by an experienced belt maker and guaranteed to be thoroughly sound and practical for further use.

SINGLE LEATHER BELTS.																			
No.	Width Inches	Length Feet	Price of Belt	No.	Width Inches	Length Feet	Price of Belt	No.	Width Inches	Length Feet	Price of Belt	No.	Width Inches	Length Feet	Price of Belt	No.	Width Inches	Length Feet	Price of Belt
No. A-2357	1	6	\$0.34	No. A-2455	6	25	6.84	No. A-2549	4	17	\$ 9.85	No. A-2648	11	45	\$45.14				
No. A-2358	1	8	.46	No. A-2456	6	29	7.94	No. A-2550	4	24	9.85	No. A-2649	11	51	51.16				
No. A-2359	1	12	.68	No. A-2457	6	32	\$8.66	No. A-2551	4	28	11.49	No. A-2650	12	9	9.85				
No. A-2360	1	15	.86	DOUBLE LEATHER BELTS.															
No. A-2361	1	21	1.20					No. A-2552	4	31	12.72	No. A-2651	12	12	13.13				
No. A-2362	1	26	1.48					No. A-2553	4	37	15.18	No. A-2652	12	13	14.23				
No. A-2363	1	33	1.88					No. A-2554	5	9	4.41	No. A-2653	12	16	17.51				
No. A-2364	1	12	.82					No. A-2555	5	12	5.47	No. A-2654	12	17	18.60				
No. A-2365	1	15	1.03					No. A-2556	5	15	6.84	No. A-2655	12	20	21.89				
No. A-2366	1	19	1.30					No. A-2557	5	17	7.75	No. A-2656	12	22	24.08				
No. A-2367	1	24	1.64					No. A-2558	5	20	9.12	No. A-2657	12	25	27.36				
No. A-2368	1	27	1.85					No. A-2559	5	22	10.03	No. A-2658	12	26	28.45				
No. A-2369	1	43	2.94					No. A-2560	5	26	11.86	No. A-2659	12	29	31.74				
No. A-2370	2	9	.82					No. A-2561	5	28	12.77	No. A-2660	12	32	35.02				
No. A-2371	2	13	1.19					No. A-2562	5	31	14.14	No. A-2661	12	34	37.21				
No. A-2372	2	17	1.66					No. A-2563	5	37	16.87	No. A-2662	12	37	40.49				
No. A-2373	2	20	1.82					No. A-2564	5	43	19.61	No. A-2663	12	41	44.87				
No. A-2374	2	24	2.19					No. A-2565	6	6	3.28	No. A-2664	12	47	51.44				
No. A-2375	2	29	2.65					No. A-2566	6	9	4.93	No. A-2665	12	51	55.81				
No. A-2376	2	36	3.28					No. A-2567	6	11	6.02	No. A-2666	12	61	66.76				
No. A-2377	2	53	4.83					No. A-2568	6	14	7.66	No. A-2667	13	20	23.71				
No. A-2378	2	17	1.74					No. A-2569	6	16	8.76	No. A-2668	13	25	29.64				
No. A-2379	2	20	2.05					No. A-2570	6	19	10.40	No. A-2669	13	29	34.38				
No. A-2380	2	24	2.46					No. A-2571	6	21	11.49	No. A-2670	13	31	36.75				
No. A-2381	2	31	3.18					No. A-2572	6	24	13.13	No. A-2671	13	40	47.42				
No. A-2382	2	37	3.80					No. A-2573	6	26	14.23	No. A-2672	13	41	48.61				
No. A-2383	2	39	4.00					No. A-2574	6	27	14.77	No. A-2673	13	50	59.28				
No. A-2384	2	53	5.44					No. A-2575	6	35	19.15	No. A-2674	13	57	67.58				
No. A-2385	2	69	7.08					No. A-2576	6	42	22.98	No. A-2675	13	62	73.51				
No. A-2386	2	12	1.37					No. A-2577	7	7	4.47	No. A-2676	14	12	15.32				
No. A-2387	2	15	1.71					No. A-2578	7	11	7.02	No. A-2677	14	17	21.71				
No. A-2388	2	17	1.94					No. A-2579	7	13	8.30	No. A-2678	14	19	24.26				
No. A-2389	2	22	2.51					No. A-2580	7	16	10.21	No. A-2679	14	23	29.37				
No. A-2390	2	25	2.85					No. A-2581	7	20	12.77	No. A-2680	14	27	34.47				
No. A-2391	2	29	3.31					No. A-2582	7	24	15.32	No. A-2681	14	31	39.68				
No. A-2392	2	30	3.42					No. A-2583	7	28	17.88	No. A-2682	14	36	45.96				
No. A-2393	2	34	3.88					No. A-2584	7	29	18.51	No. A-2683	14	38	48.52				
No. A-2394	2	37	4.22					No. A-2585	7	32	20.43	No. A-2684	14	44	56.18				
No. A-2395	2	39	4.45					No. A-2586	7	36	22.98	No. A-2685	14	50	63.84				
No. A-2396	2	41	4.67					No. A-2587	7	38	24.26	No. A-2686	14	55	70.22				
No. A-2397	2	45	5.47					No. A-2588	7	40	25.54	No. A-2687	14	60	76.61				
No. A-2398	2	55	6.27					No. A-2589	8	9	6.39	No. A-2688	15	13	17.78				
No. A-2399	2	62	7.07					No. A-2590	8	11	7.81	No. A-2689	15	17	23.26				
No. A-2400	3	9	.96					No. A-2591	8	12	8.52	No. A-2690	15	25	34.20				
No. A-2401	3	9	1.23					No. A-2592	8	16	11.35	No. A-2691	15	28	35.30				
No. A-2402	3	15	2.05					No. A-2593	8	18	12.78	No. A-2692	15	32	45.78				
No. A-2403	3	20	2.74					No. A-2594	8	20	14.20	No. A-2693	15	37	50.62				
No. A-2404	3	23	3.15					No. A-2595	8	21	14.91	No. A-2694	15	41	56.09				
No. A-2405	3	27	3.69					No. A-2596	8	25	17.74	No. A-2695	15	47	64.30				
No. A-2406	3	34	4.65					No. A-2597	8	27	19.17	No. A-2696	15	54	73.87				
No. A-2407	3	38	5.20					No. A-2598	8	29	20.59	No. A-2697	15	62	84.82				
No. A-2408	3	45	6.16					No. A-2599	8	31	22.01	No. A-2698	16	9	12.67				
No. A-2409	3	56	7.66					No. A-2600	8	37	26.26	No. A-2699	16	12	17.03				
No. A-2410	3	62	8.38					No. A-2601	8	41	29.11	No. A-2700	16	15	21.29				
No. A-2411	3	65	8.89					No. A-2602	8	52	36.92	No. A-2701	16	16	22.71				
No. A-2412	3	5	.80					No. A-2603	9	10	8.21	No. A-2702	16	20	25.39				
No. A-2413	3	9	1.44					No. A-2604	9	12	9.85	No. A-2703	16	21	26.80				
No. A-2414	3	11	1.76					No. A-2605	9	15	12.31	No. A-2704	16	27	33.32				
No. A-2415	3	14	2.24					No. A-2606	9	17	13.95	No. A-2705	16	34	48.25				
No. A-2416	3	17	2.72					No. A-2607	9	21	17.24	No. A-2706	16	36	51.09				
No. A-2417	3	21	3.36					No. A-2608	9	25	20.52	No. A-2707	16	38	53.93				
No. A-2418	3	26	4.16					No. A-2609	9	26	21.34	No. A-2708	16	40	56.77				
No. A-2419	3	33	5.28					No. A-2610	9	29	23.80	No. A-2709	16	42	59.62				
No. A-2420	3	39	6.24					No. A-2611	9	30	24.62	No. A-2710	16	49	69.54				
No. A-2421	3	51	8.16					No. A-2612	9	35	28.73	No. A-2711	16	15	24.62				
No. A-2422	4	5	.91					No. A-2613	9	37	30.37	No. A-2712	18	25	41.04				
No. A-2423	4	7	1.28					No. A-2614	9	42	34.47	No. A-2713	18	32	52.53				
No. A-2424	4	9	1.64					No. A-2615	9	55	45.14	No. A-2714	18	39	64.02				
No. A-2425	4	11	2.01					No. A-2616	10	7	6.38	No. A-2715	18	47	77.15				
No. A-2426	4	15	2.74					No. A-2617	10	9	8.21	No. A-2716	18	51	83.72				
No. A-2427	4	18	3.28					No. A-2618	10	12	10.94	No. A-2717	18	62	101.78				
No. A-2428	4	21	3.83					No. A-2619	10	14	12.77	No. A-2718	18	67	109.99				
No. A-2429	4	26	4.75					No. A-2620	10	16	14.59	No. A-2719	18	24	43.78				
No. A-2430	4	28	5.11					No. A-2621	10	17	15.50	No. A-2720	20	27	49.25				
No. A-2431	4	32	5.84					No. A-2622	10	19	17.32	No. A-2721	20	36	65.66				
No. A-2432	4	39	7.12					No. A-2623	10	22	20.06	No. A-2722	20	39	71.13				
No. A-2433	4	47	8.58					No. A-2624	10	24	21.88	No. A-2723	20	42	76.61				
No. A-2434	4	8	1.64					No. A-2625	10	26	23.71	No. A-2724	20	48	87.55				
No. A-2435	4	11	2.26					No. A-2626	10	28	25.54	No. A-2725	20	50	91.20				
No. A-2436	4	15	3.08					No. A-2627	10	30	27.36	No. A-2726	20	51	93.02				
No. A-2437	4	24	4.92					No. A-2628	10	32	29.18	No. A-2727	22	24	48.15				
No. A-2438	4	36	7.38					No. A-2629	10	36	32.82	No. A-2728	22	29	58.18				
No. A-2439	4	49	10.05					No. A-2630	10	37	33.73	No. A-2729	22	36	72.23				
No. A-2440	5	5	1.14					No. A-2631	10	39	35.57	No. A-2730	22	42	84.27				
No. A-2441	5	7	1.60					No. A-2632	10	41	37.38	No. A-2731	22	47	94.30				
No. A-2442	5	8	1.82					No. A-2633	10	43	39.20	No. A-2732	24	16	35.02				
No. A-2443	5	12	2.74					No. A-2634	10	50	45.60	No. A-2733	24	25	54.72				
No. A-2444	5	15	3.42					No. A-2635	10	60	54.72	No. A-2734	24	31	67.85				
No. A-2445	5	20</																	



## WHITE WOVEN COTTON BELTING.



This belt being woven, it cannot be made endless other than by means of belt hooks or lacing. It is used entirely for elevator purposes. Always in stock. It is new and first class quality.

## No. 3-A-9. TWO PLY.

Width Inches	Price Per Ft.	Width Inches	Price Per Ft.	Width Inches	Price Per Ft.
1...	\$0.01	2...	\$0.02	4...	\$0.03
1...	.02	3...	.03	5...	.05
2...	.02	3...	.03	6...	.06

## No. 3-A-10. THREE PLY.

Width Inches	Price Per Ft.	Width Inches	Price Per Ft.	Width Inches	Price Per Ft.
1...	\$0.02	5...	\$0.07	10...	\$0.15
2...	.03	5...	.08	12...	.19
2...	.04	6...	.09	14...	.24
3...	.04	6...	.10	16...	.29
3...	.05	7...	.10	18...	.33
4...	.06	8...	.12	20...	.36
4...	.06	9...	.14		

## No. 3-A-11. FOUR PLY.

Width Inches	Price Per Foot	Width Inches	Price Per Foot	Width Inches	Price Per Foot
4...	\$0.08	8...	\$0.15	16...	\$0.36
4...	.09	9...	.17	18...	.40
5...	.10	10...	.20	20...	.46
6...	.12	12...	.24	22...	.54
7...	.13	14...	.30		

## No. 3-A-12. FIVE PLY.

Width Inches	Price Per Foot	Width Inches	Price Per Foot	Width Inches	Price Per Foot
4...	\$0.13	8...	\$0.20	16...	\$0.45
4...	.14	9...	.22	18...	.51
5...	.15	10...	.25	20...	.57
5...	.16	12...	.30	22...	.65
6...	.18	14...	.37	24...	.72
7...	.18				

## No. 3-A-13. SIX PLY.

Width Inches	Price Per Foot	Width Inches	Price Per Foot	Width Inches	Price Per Foot
6...	\$0.18	10...	\$0.30	18...	\$0.60
7...	.20	12...	.36	20...	.69
8...	.23	14...	.45	22...	.78
9...	.26	16...	.54	24...	.86

## SHEET PACKING.

## CLOTH INSERTION PACKING.

No. 3-A-14. Used by engineers and steam users in general. It combines smoothness of finish, strength of cloth insertion, pliability and durability. In rolls 36 inches wide.

We do not cut the rolls lengthwise, but will furnish any quantity 1 yard wide. Thickness 1-32, 1-16, 3-32, 1-8, 1-4 inch.

Price per lb. .... \$0.11

## RED SHEET PACKING.

No. 3-A-15. Equal to the highest grade on the market. It is intended for general use and will not harden under the most extreme heat, and is very satisfactory for making gaskets, etc. Put up in rolls 36 inches wide. We do not cut rolls lengthwise, but will furnish any quantity one yard wide and any length desired. Sizes in stock 1-32 to 1-4 inch.

Price per lb. .... \$0.45

## WIRE INSERTION PACKING.

No. 3-A-16. This packing comes in thicknesses from 1-16 inch up. It is used in hot joints where a cloth insertion packing would be rotted or burnt out by the heat. It is very strong and durable.

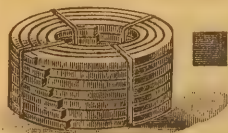
Price per lb. .... \$0.32

No. 3-A-17. Round Duck Packing. Made of heavy fringed cotton duck wrapped around a rubber core center and vulcanized together. Made in 12 foot lengths. Sizes 1 to 2 inches diameter.

Price per lb. .... \$0.30

No. 3-A-18. Asbestos Wick Packing. Is made of the purest asbestos fiber, is absolutely acid and fire-proof and is used for packing small steam pumps, tubes, valve stems, and for similar purposes. It is put up in balls weighing 1 lb.

Price per ball. .... \$0.13



No. 3-A-19. Square White Friction Packing. For hot water packing. Made with an excellent friction. Under a high pressure it swells very little in service.

Price per lb. .... \$0.45

No. 3-A-20. Square Black Friction Packing. For ordinary cold water use. Sizes 1/2 inch and larger. Price per lb. .... \$0.26

No. 3-A-21. Square Hydraulic Piston Packing. Extra fine and will stand hard service. Sizes 1/2 to 2 inches. Price per lb. .... \$0.45



No. 3-A-22. Square Flax Packing. Highest grade, manufactured from long fiber flax on the most improved machine, and saturated with an excellent lubricant. It is used in the water end of pumps and hydraulic elevators. In stock sizes as follows: 1/2, 3/4, 1, 1 1/2 and 1 inch.

Price per lb. .... \$0.25



No. 3-A-23. Spiral Graphite Packing. Made of the very best quality of stock, guaranteed to give satisfaction. Put up in boxes containing 12 feet, and in sizes from 1/2 to 1 inch.

Price per lb. (any size) .... \$0.60

## CUT RAW HIDE LACE LEATHER.



No. 3-A-24. Cut from the finest selected hides. Put up in bundles containing 100 feet. We guarantee that this is the toughest and best quality of cut lace leather on the market.

Width Inches	Price per 100 feet	Width Inches	Price per 100 feet
1/2	\$0.58	1	\$1.15
5-16	.72	1 1/2	1.50
1	.87	2	1.80

## LACE LEATHER.



No. 3-A-25. Raw Hide Lace Leather, made from the strongest, toughest, native hides. We do not cut sides.

Price per side

Sides containing about 6 sq. ft.	\$1.50
Sides containing about 8 sq. ft.	1.95
Sides containing about 10 sq. ft.	2.50
Sides containing about 12 sq. ft.	2.90
Sides containing about 15 sq. ft.	3.75
Sides containing about 17 sq. ft.	4.25

## ADJUSTABLE LACE LEATHER CUTTERS.

No. 3-A-26. Made especially for cutting Raw Hide Lace Leather. Cutters of finely tempered steel.

Price each .... \$0.22



## BELT PUNCHES.



No. 3-A-27. To drive. Made of solid tool steel, drilled and reamed.

Size No.	Hole Inches	Price Each	Size No.	Hole Inches	Price Each
4	1/4	\$0.10	11	3/4	\$0.16
5	5/16	.10	12	7/8	.17
6	3/8	.10	13	1	.20
7	7/16	.12	14	1 1/8	.25
8	1/2	.13	15	1 1/4	.27
9	9/16	.14	16	1 3/4	.29
10	5/8	.15			

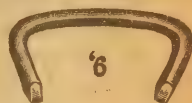
## BELT HOOKS.

No. 3-A-28. Improved Steel Belt Hooks, chisel pointed with square shoulders, preventing spreading when driven through the belt. Made in five sizes and are put up 200 in a box.

Size No.	For single leather and light rubber belts	Price per box
Size No. 00.	For double leather belts	\$0.12
Size No. 1.	For all belts less than 4 ply	.15
Size No. 2.	For belts 4 to 6 ply	.15
Size No. 3.	For belts 6 to 10 ply	.15

## OVAL POINTED BELT HOOKS.

Made of Norway iron, with oval points. Will not break in clinching. Are put up 250 in a box.



No.	Length per Box	Price	No.	Length per box.	Price
12	12	\$0.13	8	1 1/4	\$0.25
11	11	.16	7	1 1/8	.35
10	10	.20	6	1 1/2	.46
9	9	.23			

## GIANT BELT HOOKS.

No. 3-A-30. For leather, rubber and cotton belts. No tool required but a hammer to insert them. Put up in boxes containing 250.

Size	For single leather belts	Price per Box
Size C.	For double leather belts	\$0.35
Size D.	For 3 and 4 ply rubber and cotton belts	.50
Size E.	For 5 and 6 ply rubber and cotton belts	.60

## STEEL BELT LACING.

No. 3-A-31. This is the only strictly modern lacing of its kind on the market. There is plenty of space between the teeth, and therefore does not cut away the belt making it weak where it should be strong. The sharp corners have been taken off the teeth so they will not cut the fiber of the belt.

Comes packed in boxes containing 100 inches in assorted lengths.



Size No.	For single leather belt	Price per Box
Size No. 1.	For double leather belt	\$0.48
Size No. 11.	For 3 and 4 ply rubber or cotton belt	1.00
Size No. 13.	For 5 ply rubber or cotton belt	.90
Size No. 14.	For 6 ply rubber or cotton belt	1.15
		1.40

## COMPOSITION WIRE BELT LACE.

No. 3-A-32. We guarantee this to be the strongest wire belt lace manufactured, its tensile strength being 2,000 lbs., and will stand a far greater strain than is estimated in the driving capacity of a belt. It lays flush with the surface of the belt and is better than hooks. Put up in boxes of 50 feet.

Size No.	For belts 6 inches wide and under	Price per Box
Size No. 1.	For all double leather belts wider than 8 inches and for all rubber belts 5 ply or heavier	\$0.20
		.25



# HIGH GRADE HOSE

For Sprinkling and Fire Protection.

We offer exceptional values in this line. All hose is new, fresh stock, being made up especially for us, and every length is guaranteed as represented.

WE GUARANTEE that our Garden Hose will give perfect satisfaction and if any Hose proves unsatisfactory it can be returned to us any time within one year from date of purchase and we will replace it without charge. This guarantee applies only providing the Hose has not been abused. The Hose is often allowed to kink which causes the Hose to burst. This is due to careless handling and we will not replace any Hose that has burst on account of kinking.

**BEFORE PUTTING HOSE AWAY** it should be drained carefully. If this is not done the result is the inner tube will decay. We recommend that a Reel be used in connection with the Garden Hose. This will assure the Hose being drained after being used which will greatly increase the life of the Hose and pay for the Reel several times over.

## RUBBER GARDEN HOSE.



We do not handle the Competition Garden Hose, which is not reliable and therefore cannot be guaranteed.

## LEADER HOSE.

**No. 3-A-33.** 4 Ply Leader Hose, made with best quality rubber inner tube, four closely woven, cotton layers or plies, with heavy rubber coating between each ply. The outer coating is of rubber and of the same thickness as used on our better grades of hose.

This lot of hose is recommended on light or medium pressure. Furnished only in 25 and 50 foot lengths. Price includes couplings.

Size inside dia.	1/2 inch	3/4 inch	1 inch
Price 25 ft	.....\$1.80	.....\$2.00	
Price 50 ft	.....3.50	.....4.00	

All 1/2 inch hose couplings fit 3/4 inch connections.

## WIZARD HOSE.

**No. 3-A-34.** 5 Ply Wizard Hose. We advise the use of this grade of hose for ordinary pressure. It is made in the same general manner as our Leader Hose, but the plies are heavier, making a stronger and more durable hose, which is less liable to bend or kink. With reasonable care this hose will last two or three seasons. Furnished only in 25 and 50 foot lengths. Price includes couplings.

Size inside diameter	1/2 inch	3/4 inch	1 inch
Price 25 ft	.....\$2.00	.....\$2.50	.....\$3.50
Price 50 ft	.....3.95	.....4.75	.....6.75

## TIGER HOSE.

**No. 3-A-35.** 6 Ply Tiger Hose. Built for heavy pressure. Plies are made of heavier cotton duck than used in our lower priced hose. The inner tubing and covering are made of the highest grade of rubber used for this purpose. Furnished only in 25 and 50 foot lengths.

Size inside diameter	1/2 inch	3/4 inch	1 inch
Price 25 ft	.....\$2.50	.....\$2.90	.....\$3.70
Price 50 ft	.....4.80	.....5.50	.....7.15

## BOSTON TERRIER HOSE.

**No. 3-A-36.** 7 Ply Boston Terrier Hose. Guaranteed to stand the heaviest water works pressure, and to be the best garden hose manufactured. If your city has a high pressure water works system, this is the hose we recommend. With proper care it will last for years. Furnished only in 25 and 50 foot lengths. Price includes couplings.

Size inside diameter	1/2 inch	3/4 inch	1 inch
Price 25 ft	.....\$3.35		
Price 50 ft	.....6.50		

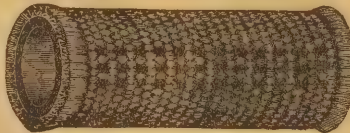
## WIRE WOUND RUBBER GARDEN HOSE.

**No. 3-A-37.** We can wire wind any of the different lots of rubber garden hose. This protects the outer covering, and also prevents kinking.

Note our price does not include the hose but is for the wire winding.

Size, inches	1/2	3/4	1
Price 25 ft	.....\$0.75	.....\$0.75	.....\$1.00
Price 50 ft	.....1.50	.....1.50	.....2.00

## BRAIDED COTTON COVERED RUBBER LINED GARDEN HOSE.



**No. 3-A-38.** The jacket is made of the most carefully selected Sea Island cotton of long fibre and woven very heavy and close; intended to resist hard usage. The tube is made of the finest "Para" rubber. This hose is guaranteed to give good service and to be satisfactory in every respect. It is in every sense a strong, durable and lasting hose. We offer but one grade and that is the best, suitable for heavy pressure. Price includes couplings. Furnished only in 25 and 50 foot lengths.

Size inside diameter	1/2 inch
Price 25 ft	.....\$2.55
Price 50 ft	.....4.90

## WATER HOSE FOR GENERAL PURPOSES.

**No. 3-A-39.** This is a high grade hose and a better quality than used for lawn and sprinkling purposes. It is made to stand hard usage. We furnish it in lengths of 10, 15, 25, 35 and 50 feet. Prices do not include couplings.

Inches	4 Ply	5 Ply	6 Ply
1	.....\$0.15	.....\$0.19	.....\$0.23
1 1/4	......18	......23	......28
1 1/2	......23	......28	......34
2	......30	......38	......45

## COTTON RUBBER LINED FIRE HOSE.



**No. 3-A-42.** Suitable for mills, factories, hotels, public institutions, etc., for fire protection purposes.

This is a single jacketed cotton rubber lined mill hose, tested to 250

pounds and furnished complete with automatic brass couplings which require no clamps. Every length fully guaranteed. In ordering be sure and state whether the couplings are to fit standard iron pipe or hose thread.

Inside Diameter	Price Per Length 25 Ft.	Price Per Length 50 Ft.
1 1/4	.....\$ 4.75	.....9.00
1 1/2	.....4.95	.....9.50
2	.....7.00	.....12.00
2 1/2	.....7.95	.....14.75

## UNLINED LINEN HOSE.



**No. 3-A-41.** This is an excellent grade of hose, used for all ordinary fire protection purposes in factories, hotels, public institutions, etc. Will not become mildewed. Furnished complete with brass couplings in 50 and 100 foot lengths.

In ordering be sure and state whether couplings are to fit standard iron or hose thread.

Size, Inches	1 1/4	1 1/2	2	2 1/2
Price 50 ft. length	\$5.25	\$ 5.75	\$ 6.75	\$ 8.00
Price 100 ft. length	9.50	10.50	12.25	14.90

## HARD RUBBER SUCTION HOSE.

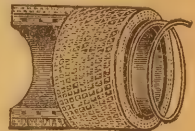
**No. 3-A-43.** Hard Rubber Suction Hose, smooth bore, extra heavy walls which will prevent collapsing when in use. Sold in lengths in multiples of 5 feet to fifty feet inclusive. Prices do not include couplings or clamps.



Size, Inches	1	1 1/4	1 1/2
Price per ft.	.....\$0.16	.....\$0.19	.....\$0.21

## RED WOVEN COTTON COVERED SUCTION HOSE.

**No. 3-A-45.** This is a smooth bore hose and is non-kinkable. Owing to the heavy woven cotton cover this hose will stand the hardest usage and will outwear any other suction hose manufactured. Has enlarged soft rubber ends to fit over 2 inch tank pump connection, and is sold in lengths of 10, 15, 20 and 25 feet.



Size inside diameter	2 Inches
Price per ft.	.....\$0.39

## NON-KINKABLE TWO-INCH SMOOTH BORE TANK HOSE.



**No. 3-A-44.** Owing to the special construction of this hose it can be bent double without kinking, and for this reason will outwear any tank hose on the market. The smooth bore makes it less possible for dirt to lodge in the hose and therefore increases its lasting qualities.

We furnish in lengths of 10, 15, 20 and 25 feet only. Made with soft rubber ends to fit over tank pump connection.

Size inside diameter	2 Inches
Price per ft.	.....\$0.26

## TWO-INCH TANK SUCTION HOSE.



**No. 3-A-46.** This is the regular standard Thresherman's Suction Hose, made with smooth bore, with steel wire inserted in walls to prevent collapsing. Has large rubber ends and will fit over 2 inch tank pump connection. Sold in lengths of 10, 15, 20 and 25 feet only.

Size inside diameter	2 Inches
Price per ft.	.....\$0.23

## STEAM HOSE.



**No. 3-A-40.** This is an extra high grade hose, the inner tube of which is specially compounded to resist the action of heat. Walls are made of heavy duck and guaranteed fully in every particular.

Inside Diameter	3 Ply		4 Ply		5 Ply		6 Ply	
	Per Ft.	Per Ft.	Per Ft.	Per Ft.	Per Ft.	Per Ft.	Per Ft.	
1/2	.....\$0.16	.....\$0.19	.....\$0.23	.....\$0.27				
3/4	......20	......25	......30	......36				
1	......25	......30	......37	......43				
1 1/4	......31	......40	......47	......56				

## HOSE REELS.

**No. 3-A-47.** The use of a reel is recommended as it drains the hose when winding in; also prevents the unnecessary wear occasioned by dragging the hose around when a reel is not used. Be sure and order a reel with your hose.

These reels are oil finished, hardwood frame, iron wheels, capacity 100 ft. of 1/2-inch hose.





# HOSE COUPLINGS, NOZZLES AND SPRINKLERS

## STEAM HOSE COUPLINGS.



No. 3-A-55. Order couplings the same size as inside diameter of hose. Price is per pair without clamps.

Size hose, in.  $\frac{1}{2}$   $\frac{3}{4}$  1 1 $\frac{1}{2}$  2  
Price each \$0.45 \$0.47 \$0.52 \$0.75 \$0.87 \$1.22

## WATER HOSE COUPLINGS.



No. 3-A-56. Order couplings same size as inside diameter of hose. Price is per pair without clamps.

Size hose, in.  $\frac{1}{2}$   $\frac{3}{4}$  1 1 $\frac{1}{2}$  2 2 $\frac{1}{2}$   
Price per pair \$0.07 \$0.08 \$0.12 \$0.26 \$0.42 \$0.74 \$1.25

## GALVANIZED WROUGHT STEEL HOSE CLAMPS.



No. 3-A-57. Order clamps same size as diameter of hose, except for 2 inch tank hose, which requires 2 $\frac{1}{2}$  inch clamps.

Size hose inches	Price per pair
$\frac{1}{2}$	\$0.01
$\frac{3}{4}$	.02
1	.03
1 $\frac{1}{2}$	.04
2	.05
2 $\frac{1}{2}$	.06
3	.09

## HOSE REDUCERS.

### No. 3-A-58.

Size Inches	Price Each	Size Inches	Price Each
1 x $\frac{1}{2}$	\$0.29	2 x 1 $\frac{1}{2}$	\$0.71
1 $\frac{1}{2}$ x $\frac{1}{2}$	.36	2 x 1 $\frac{1}{2}$	.80
1 $\frac{1}{2}$ x 1	.44	2 $\frac{1}{2}$ x $\frac{1}{2}$	.89
1 $\frac{1}{2}$ x 1 $\frac{1}{2}$	.51	2 $\frac{1}{2}$ x 1	.98
1 $\frac{1}{2}$ x 2	.51	2 $\frac{1}{2}$ x 1 $\frac{1}{2}$	1.02
2 x $\frac{1}{2}$	.53	2 $\frac{1}{2}$ x 1 $\frac{1}{2}$	1.07
2 x 1	.58	2 $\frac{1}{2}$ x 2	1.16
2 x 1 $\frac{1}{2}$	.62		



## HOSE PIPES.



No. 3-A-60.

Size Inches	Length Inches	Price Each	Size Inches	Length Inches	Price Each
$\frac{1}{2}$	7 $\frac{1}{2}$	\$0.28	2	12	\$1.60
$\frac{3}{4}$	12	.50	2	15	1.87
1	8 $\frac{1}{2}$	.40	2	20	2.06
1	12 $\frac{1}{2}$	.60	2 $\frac{1}{2}$	15	3.05
1 $\frac{1}{2}$	12	.83	2 $\frac{1}{2}$	20	3.87
1 $\frac{1}{2}$	15	.97	2 $\frac{1}{2}$	24	4.03
1 $\frac{1}{2}$	13	1.07	2 $\frac{1}{2}$	30	5.83
1 $\frac{1}{2}$	15	1.26	2 $\frac{1}{2}$	36	6.34

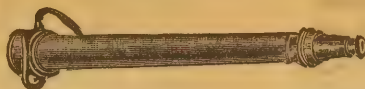
## HOSE NOZZLES.



No. 3-A-61.

Size Inches	Length Inches	Price Each	Size Inches	Length Inches	Price Each
$\frac{1}{2}$	3	\$0.18	1 $\frac{1}{2}$	12	\$0.84
$\frac{3}{4}$	8	.28	2	6 $\frac{1}{2}$	1.02
1	4	.22	2	12	1.36
1 $\frac{1}{2}$	4 $\frac{1}{2}$	.48	2 $\frac{1}{2}$	7 $\frac{1}{2}$	1.38
1 $\frac{1}{2}$	12	.59	2 $\frac{1}{2}$	12	2.10
1 $\frac{1}{2}$	5 $\frac{1}{2}$	.69	2 $\frac{1}{2}$	15	2.38

## THE "UNDERWRITERS" PIPE.



No. 3-A-62. 2 $\frac{1}{2}$  x 30 inches. Screw Nozzle, Swivel Handle, wound and painted.

Price each \$0.50

## "PREMIER" LAWN SPRINKLER.



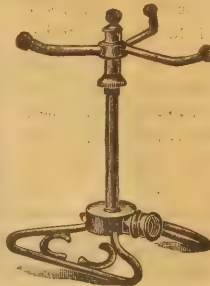
No. 3-A-48. Premier Revolving Lawn Sprinkler throws a fine spray, covers a large circle and distributes the water evenly. Mounted on runners which permit changing position without shutting off the water. Fits  $\frac{3}{4}$  inch hose couplings.

Price each \$0.85

## WHIRLWIND REVOLVING LAWN SPRINKLER.

No. 3-A-49. This is the most popular sprinkler offered. Sprinkler's height is 12". Spread of arms 13". Covers a large area. The head is easy running and will operate equally as well under a low as a high pressure. This is a very handsome lawn fixture and can be placed anywhere without shutting off the water. Will fit  $\frac{3}{4}$  inch hose coupling.

Price each \$0.97c



## [LINCOLN PARK LAWN SPRINKLER.



No. 3-A-50. Mounted on spears which can be set into the ground. All threaded at the base with  $\frac{3}{4}$  inch coupling. Price includes head and spears complete, as shown in illustration.

Height 2 ft.	Price	\$0.75
Height 4 ft.	Price	.90
Height 6 ft.	Price	1.10

## LINCOLN PARK LAWN SPRINKLER.

No. 3-A-51. This sprinkler is generally used in parks, cemeteries, public grounds, etc., where pressure is heavy. No matter what position the hose or sprinkler may be in, the spoon revolves rapidly. Can be attached to hose or pipe.

Size $\frac{3}{4}$ inch	Price	\$0.30
Size 1 inch	Price	.35



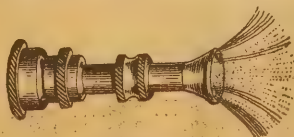
## NEW CENTURY LAWN SPRINKLER.



No. 3-A-52. New Century Lawn Sprinkler is the most sensible and practical sprinkler on the market. Stands 6" high when in operation and throws a fine spray. Is handsomely nickel plated, fitted with  $\frac{3}{4}$  inch hose coupling.

Price each \$0.25

## SOLID BRASS HOSE NOZZLE.



No. 3-A-53. The "Gem" pattern will throw a solid stream or spray. Size for  $\frac{1}{2}$  inch hose coupling.

Price each \$0.20

## SCREW TIP HOSE NOZZLE.



No. 3-A-54. Solid brass. Suitable for either water or steam hose. Will throw a spray or solid stream.

Size $\frac{1}{2}$ inch	Price, each	\$0.26
Size 1 inch	Price, each	.48

## BRASS HOSE VALVES.



No. 3-A-59. Iron Wheels or Tee Handle.

Size Inches	Price Each
1 $\frac{1}{2}$	\$2.00
2	2.50
2 $\frac{1}{2}$	3.00

## "PREMIER" FIRE EXTINGUISHERS.

Approved and labeled by the National Board of Fire Underwriters. This label insures that each extinguisher has been carefully examined and complies with every rule of the National Board of Fire Underwriters. A factory or warehouse equipped with approved appliances secures lower fire insurance rates and very often the difference in rate will more than cover the cost of equipment.

This extinguisher has three gallon capacity. Body is made of heavy copper highly polished. The container or cage that holds the acid bottle is of new design and makes the extinguisher absolutely automatic in its action. It cannot possibly fail to work neither can it get out of order, as there are no springs, clamps or movable parts of any kind. The simplicity of the bottle cage of the "Premier" extinguisher proves its superiority. Each extinguisher is furnished complete with charge and hose, as shown in illustration.



No. 4-A-128 Price \$3.00

## "PERFECTION" DRY POWDER FIRE EXTINGUISHER.



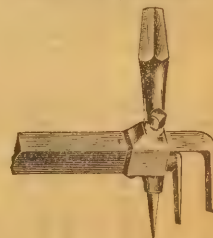
This extinguisher is made of a metal tube in which is contained a combination of chemicals that when thrown on a blaze generate a gas and readily puts out the fire.

The chemical is perfectly harmless and will not injure flesh or fabrics. Neither will it freeze or deteriorate, and is always ready for use.

No. 4-A-129 Price each \$0.50

Price per dozen 5.50

## WASHER CUTTER.



No. 3-A-150. Adjustable, so that it will cut any size washer up to 5 $\frac{1}{2}$  inches diameter. Also cutting the center hole at the same time. Made to be used in a bit brace. Knives are made of special high grade steel and each tool is fully warranted.

Price \$4.10





two pieces be used together with coupling. In addition to the new shafting we have a large stock of second hand shafting which we offer subject to the stock on hand at the time of receiving order. When we are out of second hand shaft we will substitute new shafting at the prices quoted on new, unless we are advised to the contrary. We guarantee both our new and second hand shafting to be perfectly straight and true.

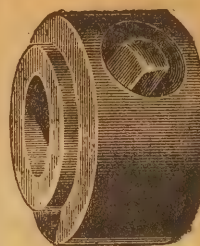
No. 11-A-1.			
Size Inches	Weight per Ft.	Second Hand Price per Ft.	Brand New. Price per Ft.
1	22.87	\$0.04	\$0.06
1 1/8	3.76	.07	.09
1 1/4	4.17	.11	.13
1 1/2	5.51	.12	.14
1 3/4	6	.15	.19
2	7.60	.16	.20
2 1/4	10	.20	.23
2 1/2	12.78	.25	.30
2 3/4	15.86	.32	.38
3	19.29	.40	.48
3 1/4	23.04	.48	.60
3 1/2	27.13	.59	.70
3 3/4	31.56	.71	.86
4	36.31	.89	.99
4 1/4	41.40	1.10	1.36

#### PRICES FOR KEY-SEATING SHAFTING.

No. 11-A-2.			
Diam. of Shaft	Key-seating for Coupling Each End	Key-seat 1 ft. Long	For each additional foot or fraction of it
1 to 1 1/4	\$0.30	\$0.35	\$0.25
1 1/4 to 1 1/2	.35	.40	.30
1 1/2 to 1 3/4	.40	.50	.35
1 3/4 to 2	.50	.60	.45
2 to 2 1/4	.60	.70	.55
2 1/4 to 2 3/4	.65	.75	.60
2 3/4 to 3	.75	.85	.65

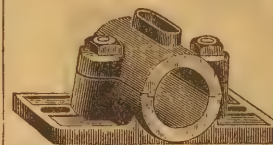
#### BRAND NEW SAFETY SET COLLARS.

##### No. 11-A-5.



Size Inches	Price Each
1	\$0.18
1 1/8	.15
1 1/4	.16
1 1/2	.18
1 3/4	.20
2	.22
2 1/4	.24
2 1/2	.28
2 3/4	.32
3	.36
3 1/4	.42
3 1/2	.48
3 3/4	.54
4	.60
4 1/4	.66
4 1/2	.72

#### BRAND NEW RIGID PILLOW BLOCKS.



No. 11-A-3.  
Heavy and suitable for all ordinary work, being babbitted with the best grade of babbitt applicable for shaft service.

Size Shaft Inches	Price Each	Size Shaft Inches	Price Each
1	\$0.45	2 1/4	\$1.40
1 1/8	.50	2 1/2	1.75
1 1/4	.55	2 3/4	2.10
1 1/2	.57	3	2.70
1 3/4	.70	3 1/4	3.30
2	.75	3 1/2	3.90
2 1/4	.85	3 3/4	4.35
2 1/2	1.15	4	4.80

#### BRAND NEW RIGID POST BLOCKS.

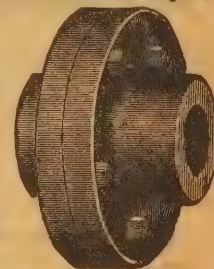
No. 11-A-9. Standard bearing, lubricated through cup cast in cap. Boxes are babbitted with the very best grade of babbitt applicable to shaft service, and is securely anchored to the casting.

Size Inches	Price Each
1	\$1.26
1 1/8	1.26
1 1/4	1.26
1 1/2	1.26
1 3/4	1.26
2	1.44
2 1/4	1.91
2 1/2	2.54
2 3/4	2.92
3	3.20
3 1/4	3.62
3 1/2	4.45
3 3/4	4.94
4	6.44
4 1/4	7.84

#### FLANGE COUPLINGS.

No. 11-A-6. We offer these couplings, both new and second hand. Orders for second hand couplings are subject to stock on hand at the time of receiving order. In event we are out of the second hand couplings, we will substitute new couplings, unless otherwise advised, at new prices.

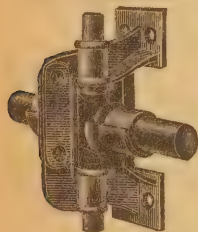
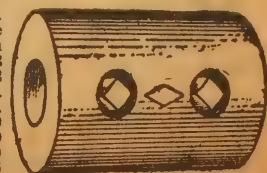
Size Inches	Brand New	Second Hand
1 1/4	\$3.00	\$2.25
1 1/2	3.20	2.30
1 3/4	3.25	2.40
2	3.30	2.45
2 1/4	3.40	2.55
2 1/2	3.60	2.70
2 3/4	4.20	3.15
3	6.00	4.50
3 1/4	7.00	5.25
3 1/2	8.75	6.50
3 3/4	10.00	7.50
4	11.50	8.50
4 1/4	12.00	9.75



#### SOLID SLEEVE COUPLING.

No. 11-A-10.  
Brand new, only for light shafting.

Size Inches	Price Each
1	\$1.12
1 1/8	1.12
1 1/4	1.31
1 1/2	1.41
1 3/4	1.50
2	1.50
2 1/4	1.69
2 1/2	2.08



No. 11-A-4  
These hangers are made with adjusting plunger screws, true ball and socket connection with bearing and ample adjustment.

#### BRAND NEW ADJUSTABLE BALL AND SOCKET DOUBLE BRACE POST HANGERS, WITH STANDARD BEARINGS.

Size Inches	Price Each	Size Inches	Price Each
1	\$1.50	2 1/4	\$3.40
1 1/8	1.55	2 1/2	3.65
1 1/4	1.60	2 3/4	4.55
1 1/2	1.75	3	5.25
1 3/4	1.85	3 1/4	5.70
2	1.90	3 1/2	8.00
2 1/4	1.95	3 3/4	10.00
2 1/2	2.50		

#### BRAND NEW, DOUBLE BRACE, ADJUSTABLE, BALL AND SOCKET DROP HANGERS, STANDARD BEARINGS.

No. 11-A-7. We use only the very best grade of babbitt applicable to shafting service, which is securely anchored to the castings and machined up by special process.

Size of Shaft In.	Drop in Inches									
	8	10	12	14	16	18	20	24	30	36
1	\$1.20	\$1.40	\$1.45	\$1.55						
1 1/8	1.20	1.40	1.45	1.55						
1 1/4	1.25	1.45	1.50	1.60						
1 1/2	1.25	1.45	1.50	1.60						
1 3/4	1.75	1.80	1.85	1.95	\$2.00	\$2.15	\$2.25			
2	1.75	1.80	1.85	1.95	2.00	2.15	2.25			
2 1/4	1.80	1.85	1.90	2.00	2.10	2.20	2.35			
2 1/2	2.35	2.55	2.65	2.75	2.85	2.95	3.05	\$3.35		
2 3/4	2.95	3.05	3.15	3.30	3.50	3.66	3.96	4.54	\$ 5.34	\$ 6.30
3	3.15	3.30	3.35	3.52	3.72	3.88	4.18	4.76	5.56	6.43
3 1/4	3.69	3.86	4.03	4.20	4.54	4.91	5.27	6.04	6.73	6.98
3 1/2	4.32	4.52	4.69	4.85	5.20	5.55	5.93	6.70	7.40	7.65
3 3/4	5.58	5.76	6.02	6.19	6.65	7.37	8.40	9.45	10.30	
4	6.73	6.92	7.17	7.34	7.82	8.55	9.61	10.46		
4 1/4	7.77	7.96	8.13	8.36	9.11	9.76	11.54	12.72	14.26	
4 1/2	8.87	9.06	9.23	9.96	10.22	10.86	12.65	13.82	15.37	

#### SECOND HAND DROP HANGERS.

No. 11-A-8. We offer second hand Drop Hangers, subject to stock on hand at time of receiving your order. Should we not have second hand hangers in the sizes specified, we will substitute new hangers, unless otherwise advised.

The boxes of all Drop Hangers are babbitted and are guaranteed to be in first class condition. Where necessary we re-babbitt. The hangers are thoroughly cleaned and painted and from any practical standpoint are as good as new.

Size of Shaft Inches	Drop in Inches									
	8	10	12	14	16	18	20	24	30	36
1	\$0.95	\$1.00	\$1.05	\$1.11						
1 1/8	.95	1.00	1.05	1.11						
1 1/4	.99	1.03	1.08	1.14						
1 1/2	1.02	1.06	1.11	1.17						
1 3/4	1.22	1.26	1.31	1.38	\$1.40	\$1.50	\$1.61			
2	1.23	1.27	1.32	1.39	1.41	1.51	1.62			
2 1/4	1.25	1.29	1.34	1.40	1.43	1.53	1.64			
2 1/2	1.71	1.84	1.88	1.95	2.01	2.08	2.20	\$2.41		
2 3/4	2.18	2.26	2.30	2.43	2.58	2.69	2.91	3.34	\$3.93	\$4.66
3	2.34	2.43	2.46	2.59	2.74	2.85	3.08	3.50	4.08	4.73
3 1/4	2.17	2.27	2.37	2.47	2.67	2.89	3.10	3.55	3.96	4.11
3 1/2	2.66	2.66	2.76	2.86	3.06	3.28	3.49	3.94	4.35	4.60
3 3/4		3.28	3.39	3.54	3.64	3.92	4.30	4.94	5.56	6.06
4		3.37	3.48	3.63	3.73	4.01	4.39	5.03	5.65	6.15
4 1/4		4.67	4.68	4.78	5.21	5.36	5.74	6.79	7.48	8.39
4 1/2		5.22	5.33	5.43	5.86	6.01	6.39	7.44	8.13	9.04



**JAW CLUTCH COUPLING.**

Brand New Only.



**No. 11-A-11.** Square Jaw. Jaw which hand is wanted. Note illustration. Prices quoted on coupling do not include clutch band or lever.



**No. 11-A-12.** Spiral Jaw Square of Spiral Jaw \$ 2.80

Size Inches	Price
1	2.82
1 1/8	3.55
1 1/4	3.57
1 1/2	4.35
1 3/4	4.38
1 7/8	5.21
2	5.77
2 1/8	7.14
2 1/4	8.24
2 1/2	8.96
2 3/4	10.08
3	11.26
3 1/8	12.49
3 1/4	13.79
3 1/2	15.25



Right



Left

**CLUTCH BAND AND LEVER.****No. 11-A-14.**

Size Inches	Clutch Band Only	Complete
1	\$0.26	\$1.63
1 1/8	.28	1.64
1 1/4	.30	1.78
1 1/2	.31	1.79
1 3/4	.33	1.95
1 7/8	.34	1.96
2	.36	2.11
2 1/8	.39	2.12
2 1/4	.43	2.27
2 1/2	.46	2.60
2 3/4	.49	2.61
3	.56	2.92
3 1/8	.62	2.93
3 1/4	.65	3.25
3 1/2	.78	3.25
3 3/4	.85	3.58

**HERCULES STEEL FACE PULLEYS.**

**No. 11-A-15.** We can furnish them only in the sizes as specified. Pulleys 8 inches and smaller can be furnished in any sizes up to and including 2 1/4 inches. Pulleys 10 inches and larger can be furnished to fit shafting up to and including 3 1/2 inches. The rim is formed from the best quality of cold rolled sheet steel. The arms are made of selected and thoroughly seasoned maple. The flanges and inner surface of the rim are painted and covered with varnish. The wood is soaked in hot linseed oil to prevent warping and coated with the best waterproof paint.

The rim is fastened to the center by bolts through the face and rivets through the flanges. These pulleys are made strong and light.

In consideration of a broken line of sizes, we are making the following special prices while they last.

Diam. Inches	Width of Face Inches.	3	4	5	6	8
10		\$0.85	\$0.90	\$0.95		
12		.95				
14		1.00	1.10	1.20	1.30	1.50
16		1.15	1.25	1.35		
18		1.25	1.30			
20		1.30	1.55	1.75	1.90	
22			1.65	1.85	2.10	2.50
24				2.10		

**RIBBED COMPRESSION COUPLINGS.**

we are out of the second hand couplings, unless otherwise advised, at new prices.

Size Inches	Brand New	Second Hand	Size Inches	Brand New	Second Hand
1 1/2	\$ 1.10		2 1/2	\$ 3.40	\$3.55
1 3/4	1.15		2 3/4	3.75	2.85
1 7/8	1.20		2 7/8	4.15	3.00
1 7/8	1.25	\$1.00	2 7/8	4.90	3.70
1 7/8	1.60	1.20	3	6.20	4.65
1 7/8	1.65	1.25	3	7.50	5.55
1 7/8	2.40	1.80	3 1/8	9.00	6.75
1 7/8	2.75	2.05	3 1/8	10.50	7.90

**No. 11-A-17.** We offer these couplings, both new and second hand. Orders for second hand couplings are subject to stock on hand at the time of receiving order. In event

**PATENT COMPRESSION COUPLINGS.**  
Brand New Only.

**No. 11-A-18.** Can be furnished in sizes as specified. We recommend the use of these couplings as it does away with the necessity of cutting key-seats which is necessary in the use of flange and ribbed compression couplings. The Patent Compression Coupling consists of a separable outer shell, tapering cone and a slotted inner sleeve which is tapered on the outside to fit the outer shell, which causes it to securely grip the shaft when the outer parts are drawn along over it by means of the bolts. These couplings are guaranteed to hold a shaft securely and not slip.

Diam. Inches	Price Each	Diam. Inches	Price Each
1 1/2	\$1.75	2 3/4	\$3.25
1 3/4	2.00	2 3/4	3.90
1 7/8	2.25	2 3/4	4.70
1 7/8	2.90		

**BRAND NEW WOOD SPLIT PULLEYS.**

**No. 11-A-16.** We furnish these pulleys complete with bushings and guarantee that they will run perfectly true on the shaft.

A wood split pulley does not require either key seat or set screws. They are so constructed that they fit to the shaft by compression and will pull equally as heavy a load as an iron or any other kind of pulley without slipping.

We recommend the use of Wood Split Pulleys in all dry places.

Diam. In.	3	4	5	6	8	10	12	14	16	18	20	22	24
4	\$1.12	\$1.16	\$1.24	\$1.32	\$1.48	\$1.64	\$1.80						
5	1.14	1.18	1.28	1.36	1.54	1.72	1.90						
6	1.16	1.20	1.30	1.40	1.60	1.80	2.00						
7	1.18	1.22	1.34	1.44	1.66	1.88	2.10						
8	1.20	1.24	1.36	1.48	1.72	1.96	2.20	2.44					
9	1.24	1.30	1.44	1.56	1.82	2.08	2.34	2.60					
10	1.30	1.36	1.50	1.64	1.92	2.20	2.48	2.76	\$3.04				
11	1.40	1.48	1.64	1.80	2.12	2.44	2.76	3.08	3.40				
12	1.50	1.60	1.78	1.96	2.32	2.68	3.04	3.40	3.76	\$4.12			
13		1.72	1.92	2.12	2.52	2.92	3.32	3.92	4.12	4.52			
14		1.84	2.06	2.28	2.72	3.16	3.60	4.04	4.48	4.92	\$5.36		
15		1.96	2.20	2.44	2.92	3.40	3.88	4.36	4.84	5.32	5.80		
16		2.08	2.34	2.60	3.12	3.64	4.16	4.68	5.20	5.72	6.24	\$6.76	
17		2.20	2.48	2.76	3.32	3.88	4.44	5.00	5.56	6.12	6.68	7.24	
18		2.32	2.62	2.92	3.52	4.12	4.72	5.32	5.92	6.52	7.12	7.72	\$ 8.32
19		2.44	2.76	3.08	3.72	4.36	5.00	5.64	6.28	6.92	7.56	8.20	8.84
20		2.56	2.90	3.24	3.92	4.60	5.28	5.96	6.64	7.32	8.00	8.68	9.36
22		2.80	3.18	3.56	4.32	5.08	5.84	6.60	7.36	8.12	8.88	9.64	10.40
24		3.08	3.52	3.96	4.84	5.32	6.60	7.48	8.36	9.24	10.12	11.00	11.88
26		3.36	3.86	4.36	5.36	6.36	7.36	8.36	9.36	10.36	11.36	12.36	13.36
28		3.64	4.20	4.76	5.88	7.00	8.12	9.24	10.36	11.48	12.60	13.72	14.84
30		3.92	4.54	5.16	6.40	7.64	8.88	10.12	11.36	12.60	13.84	15.08	16.32
32		4.20	4.84	5.56	6.92	8.28	9.64	11.00	12.36	13.72	15.08	16.44	17.80
34		4.52	5.26	6.00	7.48	8.96	10.44	11.92	13.40	14.88	16.36	17.84	19.32
36		4.84	5.64	6.44	8.04	9.64	11.24	12.84	14.44	16.04	17.64	19.24	20.84
38				6.88	8.60	10.32	12.04	13.76	15.48	17.20	18.92	20.64	22.36
40				7.32	9.16	11.00	12.84	14.68	16.52	18.36	20.20	22.04	23.88
42				7.84	9.84	11.84	13.84	15.84	17.84	19.84	21.84	23.84	25.84
44				8.36	10.52	12.68	14.84	17.00	19.16	21.32	23.48	25.64	27.80
46				8.92	11.24	13.56	15.88	18.20	20.52	22.84	25.16	27.48	29.80
48				9.52	12.00	14.48	16.96	19.44	21.92	24.40	26.88	29.36	31.84
50				10.16	12.80	15.44	18.08	20.72	23.36	26.00	28.64	31.28	33.92
52				10.84	13.64	16.44	19.24	22.04	24.84	27.64	30.44	33.24	36.04
54				11.56	14.52	17.48	20.44	23.40	26.36	29.32	32.28	35.24	38.20
56				12.32	15.44	18.56	21.68	24.80	27.92	31.04	34.16	37.28	40.40
58				13.12	16.40	19.68	22.96	26.24	29.52	32.80	36.08	39.36	42.64
60				13.96	17.40	20.84	24.28	27.72	31.16	34.60	38.04	41.48	44.92
62				14.84	18.44	22.04	25.64	29.24	32.84	36.44	40.04	43.64	47.24
64				15.76	19.52	23.28	26.64	30.44	34.56	38.32	42.08	45.84	49.60
66				16.76	20.72	24.68	28.64	32.60	36.56	40.52	44.48	48.44	52.40
68				17.80	21.96	26.12	30.28	34.44	38.60	42.76	46.92	51.08	55.24
70				18.88	23.24	27.60	31.96	36.32	40.68	45.04	49.40	53.76	58.12
72				24.56	28.84	33.68	38.24	42.80	47.36	51.92	56.48	61.04	
74				26.76	33.92	39.08	44.24	49.40	54.56	59.72	64.88	70.04	
76				33.32	39.08	44.84	50.60	56.36	62.12	67.88	73.64	79.40	
78				38.24	44.60	50.96	57.32	63.68	70.04	76.40	82.94	89.12	
80				43.60	50.60	57.60	64.60	71.60	78.60	85.60	92.60	99.60	
102				49.48	57.20	64.92	72.64	80.36	88.08	95.80	103.32	111.24	
108				55.72	64.16	72.60	81.04	89.48	97.92	106.36	114.80	123.24	
114				62.32	71.48	80.64	89.80	97.96	108.12	117.28	126.44	135.60	
120				69.28	79.16	89.04	98.92	108.80	118.68	128.56	138.44	148.32	





## BRAND NEW IRON PULLEYS

**No. 11-A-19.** Our pulleys are made of the very best quality of gray iron, and are machine moulded and are guaranteed to be perfectly balanced.

We offer pulleys both in single and double belt. The single belt pulleys are used to transmit power of a single leather or 4 ply rubber belt. However, where a double leather or a 5 or 6 ply rubber belt is used for heavy transmission of power, a double belt pulley will be required. For all ordinary work single belt pulleys are sufficiently heavy.

We will furnish these pulleys bored to fit any size shaft and fitted with either set screws or key seated as you may prefer.

Prices below quoted refer to tight pulleys only. Where you wish the pulleys in pairs, one to run tight and the other loose, there will be an extra charge as noted below.

Dia. In.	Face In.	Sgle Belt	Dble Belt	Dia. In.	Face In.	Sgle Belt	Dble Belt	Dia. In.	Face In.	Sgle Belt	Dble Belt	Dia. In.	Face In.	Sgle Belt	Dble Belt	Dia. In.	Face In.	Sgle Belt	Dble Belt
4	3	0.95		9	8	1.85		14	12	3.50	5.00	18	14	5.40	7.55	28	8	5.80	8.20
4	4	1.00		9	9	2.00		14	14	4.10	5.80	20	4	2.45	3.30	28	10	6.55	9.90
4	5	1.15		10	10	2.25		15	3	1.70	2.20	20	5	2.75	3.75	28	12	8.40	11.65
4	6	1.25		10	3	1.25		15	4	1.85	2.50	20	6	3.10	4.30	28	14	9.75	13.50
5	3	.95		10	4	1.35		15	5	2.05	2.80	20	8	3.75	5.30	30	4	4.25	6.50
5	4	1.00		10	5	1.50		15	6	2.30	3.15	20	10	4.40	6.40	30	5	4.70	6.30
5	5	1.15		10	6	1.70		15	8	2.75	3.80	20	12	5.20	7.50	30	6	5.25	7.25
5	6	1.25		10	7	1.85		15	10	3.20	4.50	20	14	6.20	7.70	30	8	6.50	9.00
6	3	.95		10	8	2.00		15	12	3.75	5.35	22	4	2.75	3.70	30	10	7.85	10.80
6	4	1.00		10	9	2.20		15	14	4.35	6.00	22	5	3.00	4.20	30	12	9.30	12.75
6	5	1.15		10	10	2.35		16	3	1.80	2.35	22	6	3.45	4.80	30	14	10.75	14.50
6	6	1.25		10	12	2.75		16	4	1.95	2.65	22	8	4.20	6.00	32	4	4.70	6.00
6	7	1.35		12	3	1.40	1.85	16	5	2.20	3.00	22	10	4.95	7.25	32	5	5.00	7.00
6	8	1.40		12	4	1.50	2.10	16	6	2.45	3.35	22	12	5.80	8.50	32	6	5.50	8.00
7	3	1.05		12	5	1.75	2.30	16	8	2.90	4.10	22	14	7.00	9.85	32	8	7.00	9.50
7	4	1.10		12	6	1.90	2.65	16	10	3.40	4.90	24	4	3.05	4.05	32	10	8.50	11.50
7	5	1.15		12	8	2.25	3.15	16	12	4.00	5.70	24	5	3.40	4.65	32	12	10.00	14.00
7	6	1.30		12	10	2.65	3.75	16	14	4.75	6.60	24	6	3.80	5.30	32	14	11.50	16.00
7	7	1.40		12	12	3.10	4.35	17	3	1.90	2.50	24	8	4.55	6.70	34	4	5.00	6.50
7	8	1.50		13	3	1.50	1.95	17	4	2.10	2.80	24	10	5.55	8.10	34	5	5.75	7.50
8	3	1.10		13	4	1.65	2.20	17	5	2.35	3.20	24	12	6.55	9.50	34	6	6.00	8.50
8	4	1.20		13	5	1.85	2.50	17	6	2.60	3.55	24	14	7.85	11.90	34	8	7.50	10.50
8	5	1.30		13	6	2.00	2.80	17	8	3.10	4.35	26	4	3.45	4.55	34	10	9.50	13.00
8	6	1.45		13	8	2.45	3.40	17	10	3.65	5.20	26	5	3.80	5.20	34	12	11.00	15.00
8	7	1.50		13	10	2.85	4.00	17	12	4.25	6.10	26	6	4.30	5.95	34	14	12.50	17.00
8	8	1.70		13	12	3.30	4.70	17	14	5.00	7.00	26	8	5.25	7.45	36	4	5.50	7.00
8	9	1.75		13	14	3.85	5.40	18	3	2.00	2.60	26	10	6.30	9.00	36	5	6.00	8.00
8	10	2.00		14	3	1.60	2.10	18	4	2.20	2.90	26	12	7.50	10.55	36	6	7.00	9.00
9	3	1.20		14	4	1.75	2.35	18	5	2.45	3.35	26	14	8.80	12.00	36	8	8.00	11.00
9	4	1.30		14	5	1.95	2.65	18	6	2.75	3.80	28	4	3.85	5.00	36	10	9.50	13.00
9	5	1.40		14	6	2.15	2.90	18	8	3.35	4.65	28	5	4.25	5.60	36	12	11.75	15.00
9	6	1.50		14	8	2.60	3.50	18	10	3.85	5.55	28	6	4.75	6.50	36	14	13.00	17.50
9	7	1.70		14	10	3.00	4.30	18	12	4.55	6.50								

## SECOND HAND IRON PULLEYS

**No. 11-A-20.** We generally have in stock a great many second hand iron pulleys that are in first class condition, perfectly balanced and for further practical use are as good as new.

Our stock in this line is constantly changing, and while we offer a line of sizes, we cannot guarantee to furnish second hand pulleys in every instance, and when we are out of second hand pulleys, as ordered, we will take the liberty of substituting new iron pulleys at new prices as quoted.

The second hand iron pulleys we offer, fitted with set screws only. Where a pulley is specified "key-seated" we will do this work, making an extra charge therefor. Should it so happen that we have a second hand iron pulley in our stock of the size and bore ordered, fitted with key-seats, we of course, would furnish it at prices quoted, making no extra charge.

Dia. In.	Face In.	Sgle Belt	Dble Belt	Dia. In.	Face In.	Sgle Belt	Dble Belt	Dia. In.	Face In.	Sgle Belt	Dble Belt	Dia. In.	Face In.	Sgle Belt	Dble Belt	Dia. In.	Face In.	Sgle Belt	Dble Belt
12	4	.70		22	8	1.70		30	9	3.60	4.95	38	6	5.30		44	14		12.90
12	5	.85		2	8	2.10		30	10	3.95	5.40	38	7	5.90		44	15		14.65
12	6	.95		2	10	2.50		30	11	4.30	5.90	38	8	6.50		46	4		5.70
12	8	1.15		22	11	2.70		30	12	4.65	6.40	38	9	7.10		46	5		6.45
12	10	1.35		22	12	2.90		30	14	5.40	7.50	38	10	7.70		46	7		8.00
12	12	1.55		22	14	3.50		30	16	6.15	8.55	38	11	8.35		46	8		8.80
14	4	.90		22	16	4.10	5.60	32	4		3.05	38	12	9.00		46	9		9.60
14	5	.95		24	4	1.50	2.05	32	5		3.50	38	14	10.40		46	10		10.40
14	6	1.08		24	5	1.70	2.35	32	6		4.00	38	16	12.30		46	11		11.20
14	8	1.30		24	6	1.90	2.05	32	7		4.50	40	4	4.50		46	12		12.05
14	10	1.50		24	8	2.30	3.35	32	8		4.95	40	5	4.90		46	14		13.80
14	12	1.85		24	10	2.75	4.05	32	9		5.55	40	6	5.75		46	15		15.65
16	4	1.00		24	12	3.30	4.75	32	10		5.95	40	7	6.40		46	16		17.50
16	5	1.10		24	14	3.90	5.50	32	12		6.50	40	8	7.05		46	18		19.35
16	6	1.25		24	16	4.60	6.25	32	14		7.20	40	9	7.70		46	20		21.20
16	7	1.35		26	4	1.70	2.30	32	16		8.00	40	10	8.35		46	24		23.05
16	8	1.45		26	5	2.00	2.65	32	18		9.40	40	11	9.05		46	26		24.95
16	10	1.70		26	6	2.15	3.00	34	4		3.40	40	12	9.70		46	28		26.90
16	11	1.85		26	8	2.65	3.75	34	5		3.90	40	14	11.20		48	4		6.15
16	12	2.00		26	10	3.15	4.50	34	6		4.40	40	16	13.20		48	5		6.95
18	4	1.25		26	11	3.45	4.90	34	7		4.95	42	4	4.85		48	6		7.75
18	5	1.35		26	12	3.75	5.25	34	8		5.40	42	5	5.55		48	7		8.60
18	6	1.45		26	14	4.40	6.15	34	9		5.45	42	6	6.20		48	8		9.45
18	8	1.65		26	16	5.10	7.00	34	10		6.00	42	7	6.90		48	9		10.30
18	10	1.95		28	4	1.90	2.50	34	11		6.55	42	8	7.60		48	10		11.15
18	12	2.25		28	5	2.10	2.85	34	12		7.65	42	9	8.30		48	11		12.00
18	14	2.70		28	6	2.35	3.30	34	14		8.90	42	10	9.00		48	12		12.90
18	16	3.15		28	7	2.65	3.70	34	16		10.20	42	11	9.70		48	14		14.75
20	4	1.25		28	8	2.90	4.10	36	4		3.70	42	12	10.40		48	16		16.70
20	5	1.40		28	9	3.20	4.50	36	5		4.25	42	14	12.00		48	18		18.65
20	6	1.55		28	10	3.30	4.95	36	6		4.80	42	16	13.60		48	20		20.60
20	8	1.90		28	11	3.85	5.40	36	7		5.40	44	4	5.25		48	22		22.55
20	10	2.20		28	12	4.20	5.85	36	8		5.95	44	5	6.00		48	24		24.50
20	11	2.40		28	14	4.90	6.25	36	9		6.50	44	6	6.75		48	26		26.50
20	12	2.60		28	16	5.65	7.75	36	10		7.10	44	7	7.45		48	28		28.50
20	14	3.10		30	4	2.15	2.75	36	11		7.70	44	8	8.20		54	6		9.45
20	16	3.60		30	5	2.35	3.15	36	12		8.90	44	9	8.95		54	7		10.35
22	4	1.40		30	6	2.65	3.65	36	14		9.70	44	10	9.70		54	8		11.25
22	5	1.60		30	7	2.95	4.05	38	4		4.10	44	11	10.45		54	9		12.15
				30	8	3.25	4.50	38	5		4.30	44	12	11.25		54	10		13.15

### EXTRA CHARGES FOR TIGHT AND LOOSE IRON PULLEYS.

These charges will be added to the cost of the pulley. For illustration—you may order a pair of tight and loose pulleys 6 inch diameter, 4 inch face, price \$1.00 each.

Diameter Inches	Price	Diameter Inches	Price	Diameter Inches	Price	Diameter Inches	Price
6 to 8	\$0.80	15 and 16	\$1.55	23 and 24	\$2.20	32	\$2.90
9 and 10	.95	17 and 18	1.65	25 and 26	2.40	34	3.10



## GEARS

All Kinds, New and Second-Hand



**Bevel Gear Miter Gear Spur Gears**  
**No. 11-A-21.** Send us your specification. We have a large stock of second hand gears which it is impossible for us to list. The chances are that we can supply your requirements.

We are also in a position to furnish new gears, and should we not have second hand gears that would answer your purpose, we would be pleased to quote you a low price on new gears.

We furnish gears in pairs only. When writing us regarding gears be sure and give us the following information:

1. State whether gears required are spur, bevel or miter.
2. Give size of both gear and pinion.
3. State size of shaft on which each gear will run, and the speed of each shaft.
4. State the number of horse power that you wish to transmit.

With this information we will then be able to figure out what will be suitable for your purpose.

You will note from the illustrations that the spur gears are straight faced. The bevel gears have bevel face, the gear and pinion being of unequal diameter. Miter gears have bevel face, both gear and pinion being of equal diameter.

## Brand New Sprocket Wheels



**No. 11-A-24.** To be used in connection with Link Belting.

We will furnish these bored to fit any size shaft not exceeding the size described in connection with each number.

In ordering be sure and state size of shaft and whether the sprockets are to be key-seated or set screws.

less otherwise specified, they will be furnished with set screws.

No. 25—BORE 1 7-16 INCH AND LESS.			
Diam. Inches	Teeth	Price Each	
2	7	\$0.60	
2 1/2	8	.63	
2 3/4	9	.65	
3	10	.68	
3 1/4	12	.70	
4	14	.75	
5	17	.80	
5 1/2	19	.85	
6	21	.90	
7	24	.95	

No. 32—BORE 1 7-16 INCH AND LESS.			
Diam. Inches	Teeth	Price Each	
2	5	\$0.60	
2 1/2	7	.67	
3	8	.70	
3 1/4	9	.73	
4	11	.78	
4 1/4	12	.82	
5	14	.92	
6	16	.98	
7 1/4	20	1.10	
8	22	1.20	

Nos. 33 and 34—BORE 1 7-16 INCH AND LESS.			
Diam. Inches	Teeth	Price Each	
2 1/2	6	\$0.70	
3	8	.75	
4 1/4	10	.85	
5	11	.90	
6	13	.95	
6 1/2	15	1.00	
7 1/4	18	1.10	
8	19	1.15	
9	20	1.25	

Nos. 35, 45, 55—BORE 1 15-16 INCH AND LESS.			
Diam. Inches	Teeth	Price Each	
2 1/2	5	\$0.80	
3	7	.90	
4 1/4	9	1.00	
5	11	1.10	
6 1/2	13	1.15	
7 1/4	15	1.30	
8 1/2	17	1.45	
10	19	1.55	
11	21	1.65	
12	23	1.75	
13	25	1.85	
15	29	2.00	
16	31	2.15	

## LINK CHAIN BELTING

**No. 11-A-22.** Brand new, for use on Mowers, Reapers, Binders, Corn and Wheat Drills, Corn Shellers, Straw Stackers, Feed Cutters, Saw Dust Conveyors, etc. When ordering chain be sure and give number. If the chain is so worn that number is effaced, it is advisable to send a sample link.

Approximate Leather Belting Price			
No.	Links per Ft.	Working Strain lbs.	Price in. Single per Ft.
25	13.3	75	1 in. \$0.06
32	10.4	150	1 1/2 in. .06
33	8.6	200	2 in. .06
34	8.6	225	2 1/2 in. .06
35	7.4	250	3 in. .07
42	8.8	300	3 1/2 in. .07
45	7.4	350	3 3/4 in. .07
51	10.4	375	3 1/2 in. .10

## ATTACHMENT LINKS FOR CHAIN BELTING.

**No. 11-A-23.** These Attachment Links are made to fit the sizes of chains as listed below, and must not be ordered, except to match the size we state they will fit. For example, it will be noticed that the A-10 attachment is only made for Nos. 35 and 45 chain, and must not therefore be ordered to be used on any other size.

Chain No. 25		Chain No. 42		Chain No. 34		Chain No. 45		Chain No. 51	
A 3	A 1	A 1	A 1	A 1	A 1	A 1	A 1	A 1	A 1
C 1	C 1	C 1	C 1	C 1	C 1	C 1	C 1	C 1	C 1
D 3	D 3	D 3	D 3	D 3	D 3	D 3	D 3	D 3	D 3
E 1	E 1	E 1	E 1	E 1	E 1	E 1	E 1	E 1	E 1
H 2	H 2	H 2	H 2	H 2	H 2	H 2	H 2	H 2	H 2
K 1	K 1	K 1	K 1	K 1	K 1	K 1	K 1	K 1	K 1
K 5	K 5	K 5	K 5	K 5	K 5	K 5	K 5	K 5	K 5
M 1	M 1	M 1	M 1	M 1	M 1	M 1	M 1	M 1	M 1
S 1	S 1	S 1	S 1	S 1	S 1	S 1	S 1	S 1	S 1

## Price List.

Attachment Links for Nos. 25, 32, 33 and 34 chain.		Price Each
Attachment Links for Nos. 35, 42, 45 and 51 chain.		.03
Attachment Links for Nos. 52, 55, 57 and 62 chain.		.04
Attachment Links for Nos. 66, 67 and 77 chain.		.06

No. 42—BORE 1 11-16 INCH AND LESS.			
Diam. Inches	Teeth	Price Each	
2 1/2	6	\$0.85	
3 1/4	8	.95	
4 1/4	11	1.05	
5 1/4	12	1.10	
6 1/4	14	1.15	
7 1/4	16	1.20	
8 1/4	18	1.25	
9 1/4	20	1.30	

No. 51—BORE 1 15-16 INCH AND LESS.			
Diam. Inches	Teeth	Price Each	
2 1/2	7	\$0.80	
3 1/4	9	.85	
4 1/4	11	.90	
5 1/4	12	.95	
6 1/4	13	1.00	
7 1/4	15	1.05	
8 1/4	16	1.08	
9 1/4	18	1.10	
10 1/4	20	1.15	

No. 52—BORE 1 15-16 INCH AND LESS.			
Diam. Inches	Teeth	Price Each	
3 1/4	6	\$0.85	
4 1/4	8	.90	
5 1/4	10	1.00	
6 1/4	11	1.05	
7 1/4	13	1.15	
8 1/4	15	1.25	
9 1/4	17	1.40	
10 1/4	19	1.45	
11 1/4	21	1.55	
12 1/4	23	1.65	
13 1/4	25	1.70	
14 1/4	27	1.80	
15 1/4	30	1.90	

Nos. 57, 67, 77—BORE 2 7-16 INCH AND LESS.			
Diam. Inches	Teeth	Price Each	
4 1/4	5	\$0.95	
5 1/4	6	1.00	
6 1/4	7	1.05	
7 1/4	8	1.25	
8 1/4	10	1.75	
9 1/4	12	1.60	
10 1/4	14	1.80	
11 1/4	16	1.95	
12 1/4	18	2.10	
13 1/4	20	2.35	
14 1/4	22	2.50	
15 1/4	24	2.70	

No. 62—BORE 2 7-16 INCH AND LESS.			
Diam. Inches	Teeth	Price Each	
3 1/4	7	\$0.95	
4 1/4	8	1.00	
5 1/4	9	1.05	
6 1/4	10	1.10	
7 1/4	11	1.15	
8 1/4	12	1.25	
9 1/4	13	1.35	
10 1/4	15	1.45	
11 1/4	16	1.50	
12 1/4	19	1.70	
13 1/4	21	1.85	

No. 66—BORE 2 7-16 INCH AND LESS.			
Diam. Inches	Teeth	Price Each	
5 1/4	8	\$0.95	
6 1/4	11	1.10	
7 1/4	12	1.15	
8 1/4	13	1.25	
9 1/4	14	1.30	



# Elevator Buckets and Conveyors

## CAST IRON ENDS FOR CONVEYOR BOXES.



This cast iron end for conveyor trough takes the place of a hanger or bearing. It makes a much more rigid bearing for driving ends than a hanger or outside pillow block, and costs less, when the labor and material for the foundation for outside bearing is considered. The bearing is babbitted and furnished with oil tube, as shown in cut.

	Diameter Conveyor Inches	Diameter Shaft Inches	Price
No. 3-A-72.....	4.....	1.....	\$0.82
No. 3-A-73.....	6.....	1½.....	1.00
No. 3-A-74.....	9.....	1½.....	1.50
	12.....	2.....	3.00

## SUPERIOR WROUGHT IRON BOOT.

No. 3-A-77. The Superior Wrought Iron Boots are stronger and more durable than any other boots in the market. They are made of heavy sheet iron sides and cast iron frames, and they have extra supports or feet that hold the weight of the elevator legs. This is a very essential feature that is found in no other boot. It has side tighteners, a shield to protect bearings from dust, also oil tube for oiling. It is provided with clean-out doors either on side or end, as desired. The pulleys are well balanced and all bearings babbitted.



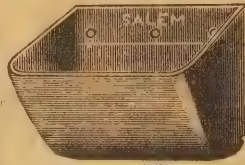
In ordering, give length and projection of buckets. Made with either pulleys or sprocket wheels.

	Width Bucket Inches	Width Belt Inches	Pulley	Price
Style No. 1.....	4½.....	5.....	10x6.....	\$11.50
Style No. 2.....	5.....	5½.....	10x6.....	12.00
Style No. 3.....	6.....	7.....	12x8.....	12.50
Style No. 4.....	7.....	8.....	14x9.....	13.75
Style No. 5.....	8.....	9.....	14x10.....	15.50
Style No. 6.....	9.....	10.....	16x11.....	18.00
Style No. 7.....	10.....	11.....	16x12.....	19.75
Style No. 8.....	11.....	12.....	16x13.....	21.50
Style No. 9.....	12.....	13.....	18x14.....	23.75
Style No. 10.....	14.....	15.....	18x16.....	26.00

## SALEM ELEVATOR BUCKETS.

Brand New.

No. 3-A-63.



Capacity Bushels per hour 200 ft. per minute	Width Inches	Projection Inches	Price Each
12 inches apart	2	2	\$0.01½
21.....	2½	2½	.02
40.....	3	3	.02½
59.....	3½	3½	.03
69.....	4	4	.04
87.....	4½	4½	.04½
102.....	5	5	.05
116.....	5½	5½	.05½
131.....	6	6	.07
159.....	6½	6½	.07½
179.....	7	7	.08
199.....	7½	7½	.11½
229.....	8	8	.16
251.....	8½	8½	.17
274.....	9	9	.21
500.....	10	10	.24
670.....	10½	10½	.28
754.....	11	11	.25
973.....	11½	11½	.29
1200.....	12	12	.26
1590.....	12½	12½	.31
1842.....	13	13	.28
1749.....	14	14	.33
1464.....	15	15	.29
1908.....	16	16	.36
1708.....	17	17	.35
2226.....	18	18	.39
1952.....	19	19	.41
2544.....	20	20	
2862.....	21	21	
2400.....	22	22	
3180.....	23	23	

## STEEL GRAIN BUCKETS.

No. 3-A-64.



Across Belt	Pro- jection	Price Each
5.....	4.....	\$0.07
5½.....	4.....	.07½
6.....	4.....	.08
7.....	4½.....	.10
8.....	5.....	.10½
9.....	5.....	.11
10.....	5½.....	.15
11.....	6.....	.16½
12.....	6.....	.18
14.....	6.....	.21

## TIN MILL BUCKETS.

No. 3-A-65. As per list below, the smaller sizes are made of Tin, and the larger of Smooth Refined Steel; the ends are double seamed to the body by special machinery, which enables us to produce a bucket which for strength and smoothness of finish has no superior.



They are guarded with band iron firmly riveted to the body, making the bucket light but firm; the shape is especially adapted to discharge readily.

Width On Belt	Pro- jection	Price Each	Width On Belt	Pro- jection	Price Each
2.....	2.....	\$0.02½	4.....	3½.....	\$0.05
2½.....	2½.....	.03	4½.....	3½.....	.05½
3.....	3.....	.03½	5.....	4.....	.06
3½.....	3.....	.03½	5½.....	4.....	.06½
4.....	3.....	.04½	6.....	4.....	.07

## ELEVATOR BUCKET BOLTS.

Corrugated and Slotted Head.



Slotted Head No. 3-A-66.	Corrugated Head No. 3-A-67
1 x ½ inch. Price per 100.....	1 x ½ inch. Price per 100.....
4 x ½ inch. Price per 100.....	4 x ½ inch. Price per 100.....
1 x 1 inch. Price per 100.....	1 x 1 inch. Price per 100.....
4 x 1 inch. Price per 100.....	4 x 1 inch. Price per 100.....
1 x 1½ inch. Price per 100.....	1 x 1½ inch. Price per 100.....
4 x 1½ inch. Price per 100.....	4 x 1½ inch. Price per 100.....

## SPIRAL STEEL CONVEYOR.

Price includes steel curved lining, one hanger and one coupling with each standard length.



"Spiral" steel Conveyor is made in either right or left hand. Unless otherwise specified we will invariably furnish the right hand conveyor.

	Outside Diam. in Inches	Standard Length Feet	Inside Diam. of Hollow Shaft Inches	Regular Diam. of Projections Inches	Maximum Capacity per Hour Bushels	Recommended Revolutions per Minute	Price per Ft.
No. 3-A-68.....	4.....	3.....	1.....	1.....	100.....	220.....	\$0.40
No. 3-A-69.....	6.....	6.....	1½.....	1½.....	350.....	200.....	.67
No. 3-A-70.....	6.....	10.....	1½.....	1½.....	1100.....	175.....	.80
No. 3-A-71.....	12.....	12.....	2.....	2.....	2000.....	150.....	1.12

## FLEXIBLE GRAIN SPOUTS FOR TRIMMING CARS.

These Spouts are used to load cars without shoveling, and will work where there is little fall from bin. No. 1 has swivel joint. Nos. 2 and 3 have chain connections. Will turn any angle. No. 1 Spout sent unless otherwise ordered.

Each Section adds 8½ inches to the length. Special sizes made to order, any size, length and any size hopper. In ordering give size of wooden spout to which you wish the spout fitted.

No. 3-A-75.						
Diameter Inches	Length Ft.	Size of Hopper Inches	Gauge of Steel.			
			No. 18	No. 16	No. 14	No. 12
6.....	5.....	10x10.....	\$ 4.65.....	\$ 5.50.....	\$ 6.60.....	\$ 9.35.....
8.....	6.....	12x12.....	5.80.....	6.60.....	8.80.....	11.55.....
10.....	6.....	14x14.....	6.60.....	8.25.....	9.90.....	12.65.....
12.....	8.....	16x16.....	10.25.....	11.00.....	13.75.....	16.50.....

## EXTRA SECTIONS.

No. 3-A-76.			
Diameter Inches	Length Inches	No. 18	No. 16
6.....	8½.....	\$0.39.....	\$0.55.....
8.....	8½.....	.47.....	.75.....
10.....	8½.....	.55.....	.72.....
12.....	8½.....	.69.....	.82.....



Style No. 1

Style No. 2

Style No. 3



MILL FILE, BASTARD CUT, SQUARE EDGE.  
No. 4-A-570.



Length, in.	4	5	6	8	10	12	14	16
Price, each	\$0.07	.08	.09	.10	.12	.17	.23	.34
Per dozen	\$0.70	.75	.81	1.00	1.40	1.90	2.65	3.50

Length, inches . . . . .	6	8	10	12	14
Price, each . . . . .	\$0.11	.13	.16	.20	.26
Price, per dozen . . . . .	\$1.20	1.45	1.75	2.25	3.00

Length, inches	4	5	6	8	10	12
Price, each	\$0.06	.07	.08	.09	.10	.14
Price, per dozen	\$0.56	.62	.66	.81	1.09	1.45

Length, inches	4	5	6	8	10	12
Price, each	\$0.07	.08	.09	.10	.14	.18
Price, per dozen	\$0.72	.78	.85	1.02	1.40	2.00

Length, inches	3	4	5	6	7	8
Price, each	\$0.04	.05	.06	.07	.08	.09
Price, per dozen	\$0.40	.43	.50	.68	.85	1.05

Diam. Inches		Thickness, inches.															
		$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$1$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$2$
2	.....	\$0.09	\$0.11	\$0.13	\$0.14	\$0.14	\$0.14	\$0.15	\$0.16	\$0.18	\$0.19	\$0.20	\$0.21	\$0.22	\$0.23	\$0.24	\$0.25
3	.....	.13	.16	.20	.23	.24	.24	.28	.31	.35	.39	.43	.47	.51	.55	.59	.63
4	.....	.19	.24	.28	.31	.34	.40	.46	.53	.59	.65	.71	.77	.83	.89	.95	1.01
5	.....	.25	.30	.35	.40	.45	.55	.65	.75	.85	.95	1.05	1.15	1.25	1.35	1.45	1.55
6	.....	.35	.40	.44	.53	.60	.76	.93	1.09	1.25	1.41	1.57	1.73	1.89	2.05	2.21	2.37
7	.....	.46	.50	.54	.65	.75	.96	1.18	1.39	1.60	1.81	2.02	2.23	2.44	2.65	2.86	3.07
8	.....	.52	.59	.65	.78	.90	1.15	1.40	1.65	1.90	2.15	2.40	2.65	2.90	3.15	3.40	3.65
10	.....	.75	.84	.95	1.09	1.25	1.59	1.93	2.26	2.60	2.93	3.26	3.59	3.92	4.25	4.58	4.91
12	.....	1.00	1.15	1.30	1.50	1.75	2.25	2.75	3.25	3.75	4.25	4.75	5.25	5.75	6.25	6.75	7.25
14	.....	1.01	1.29	1.56	1.84	2.11	2.65	3.21	3.76	4.31	4.86	5.41	5.96	6.51	7.06	7.61	8.16
16	.....						2.71	3.43	4.14	4.86	5.57	6.28	6.99	7.70	8.41	9.12	9.83

Length, inches	3	4	5	6	7	8
Price, each	\$.04	.05	.06	.07	.08	.09
Price, per dozen	\$0.40	.43	.50	.68	.85	1.05

Length, inches.....	5	6	8	10
Price, each.....	\$0.09	.10	.13	.18
Price, per dozen.....	\$1.00	1.10	1.30	1.90

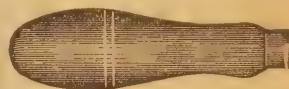
**No. 4-A-577.** Suitable for filing any size auger bit without filing the screw or lip. The use of these files will save your auger bits.

Price, each .....	\$0.08
Price, per dozen .....	.90

Length, inches.....	8	10	12	14
Price, each.....	\$0.20	.27	.35	.47
Price, per dozen.....	\$2.25	3.00	4.10	5.35

**No. 4-A-579.** Will hold files of all sizes and shapes, from the smallest up to a 14-inch mill file. It will also hold twist drills, gimlets, screw drivers and all tools with shanks less than  $\frac{3}{4}$  inch, square, round or flat.  
Price, each.....\$0.06

**No. 4-A-580.** Furnished in three sizes: large, medium or small. To be used with files of various sizes.  
Price, per dozen.....**\$0.12**



Diam. Inches	1	1 1/2	2	2 1/2
6	\$0.57	\$0.65	\$0.70	\$0.93
8	.85	.96	1.70	1.40
10	1.20	1.30	1.43	1.95
12	1.41	1.50	1.55	2.35

No. 4-A-584.	Price complete with two sets of Cutters.....	\$0.28
No. 4-A-585.	Extra Cutters, price per dozen .....	.60
No. 4-A-586.	Extra Cutters, price per set .....	.08



# BENCH EMERY GRINDERS



**Two Wheel Emery Grinder, \$2.10**

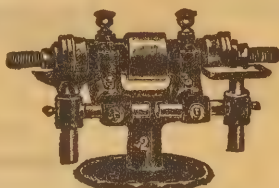
**No. 4-A-587.** This machine will run two wheels 6 inch diameter, 1 inch thick. Has  $\frac{1}{2}$  inch steel spindle,  $\frac{1}{2}$  inch between flanges, pulley 2 inch diameter,  $1\frac{1}{2}$  inch face. Weight 9 lbs.

Price, not including stones.....\$2.10

**Two Wheel Emery Grinder, \$4.50**

**No. 4-A-588.** This machine will run two wheels 10-inch diameter,  $1\frac{1}{2}$  inch thick. Has a steel spindle  $\frac{1}{2}$  inch in bearings,  $\frac{1}{2}$  inch between flanges. The bearings are 2 inches long, made with caps, and are adjustable. Mounted with brass oil cups, pulley  $2\frac{1}{2}$  inch diameter,  $1\frac{1}{2}$  inch face. Weight of Grinder complete 20 lbs.

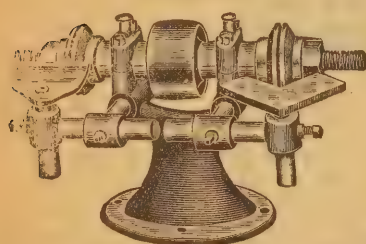
Price, not including stones.....\$4.50



**No. 4-A-589.** Emery Grinder. Will run two wheels 12-inch diameter, 2 inches thick. Has a steel spindle 18 inches long and  $1\frac{1}{2}$  inch diameter in bearings, 1 inch between flanges. The bearings are 3 inches long, and same style as engine-lathe bearings, mounted with brass oil cups. Pulley  $2\frac{1}{2}$  inch diameter,  $2\frac{1}{2}$  inch face. Weight 40 lbs.

Price, not including stones.....\$6.50

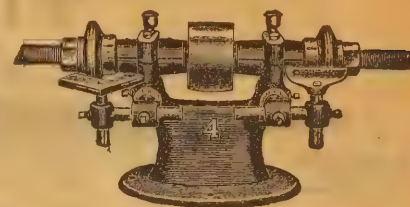
**Two Wheel Emery Grinder, \$6.50**



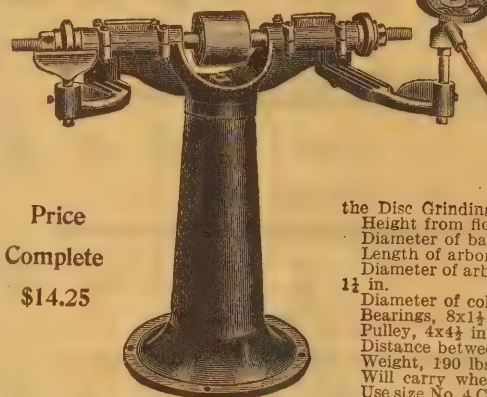
**No. 4-A-590.** Emery Grinder. Will run two wheels 16-inch diameter,  $2\frac{1}{2}$  inches thick. Has steel spindle  $1\frac{1}{2}$  inch diameter in bearings,  $1\frac{1}{2}$  inch between flanges. The bearings are 4 inches long and same style as engine-lathe bearings. Mounted with brass oil cups, pulley  $4\frac{1}{2}$  inch diameter,  $2\frac{1}{2}$  inch face. Weight 65 lbs.

Price, not including stones.....\$8.75

**Two Wheel Emery Grinder, \$8.75**



**Floor Emery Grinding Machine, Especially adapted for Grinding Plows.**



**Price Complete \$14.25**

This is a very strong and substantial machine and is especially adapted for grinding plows and general shop requirements. The illustration shows the grinder fitted with a Disc Grinding Attachment on right-hand end. We furnish this Grinder both with and without the Disc Grinding Attachment.

Height from floor to arbor, 30 in.  
Diameter of base, 18 in.  
Length of arbor, 36 in.  
Diameter of arbor between collars,  $1\frac{1}{2}$  in.  
Diameter of collars,  $3\frac{1}{2}$  in.  
Bearings,  $8\times1\frac{1}{2}$  in.  
Pulley,  $4\times4\frac{1}{2}$  in.  
Distance between wheels, 24 in.  
Weight, 190 lbs.  
Will carry wheels  $14\times3$  in.  
Use size No. 4 Countershaft in connection with this Grinder.

**No. 4-A-591.** Price, complete, with two rests, only.....\$14.25  
**No. 4-A-592.** Disc Grinding Attachment, extra.....\$3.00

**Emery Stand Columns, \$3.50 and up.**

These columns are designed to fit the Bench Emery Grinders which offer. In many instances it is not convenient to mount the grinder on a bench. The columns have a rib around the top to keep the tools from falling off. It will be found much more convenient to mount Grinders on these columns.



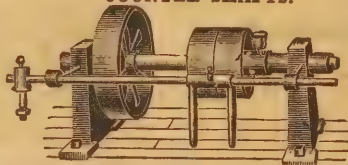
**No. 4-A-593.**  
Size of table..... $6\frac{1}{2}\times8$  inches  
Size of base..... $9\times12$  inches  
Height.....32 inches  
Weight about.....32 lbs.  
Price, each.....\$3.50

**No. 4-A-594.**  
Size of table..... $9\times11$  inches  
Size of base..... $9\times12$  inches  
Height.....32 inches  
Weight about.....37 lbs.  
Price, each.....\$3.75

**No. 4-A-595.**  
Size of table..... $11\times13$  inches  
Size of base..... $12\times16$  inches  
Height.....32 inches  
Weight, about.....75 lbs.  
Price, each.....\$5.50

**No. 4-A-596.**  
Size of table..... $11\times15$  inches  
Size of base..... $14\times18$  inches  
Height.....28 inches  
Weight about.....100 lbs.  
Price, each.....\$7.00

## COUNTER SHAFTS.



These Countershafts are of superior construction and guaranteed to be in perfect alignment. They are furnished complete with drive pulley, tight and loose pulleys, Langer's shifting rod and belt shifter.

**No. 4-A-597.** Size No. 1.  
Size of Drive Pulley..... $8\times2$  inches  
Size of Tight and Loose Pulleys..... $3\frac{1}{2}\times1\frac{1}{2}$  inches  
Length of Shaft.....17 inches  
Drop of Hanger.....5 inches  
Diameter of Shaft..... $\frac{1}{2}$  inch  
Weight complete.....24 lbs.  
Price.....\$2.50

Will fit our No. 1 Bench Emery Grinder.  
**No. 4-A-598.** Size No. 2.  
Size of Drive Pulley..... $9\times2$  inches  
Size of Tight and Loose Pulleys..... $5\times2$  inches  
Drop of Hanger..... $6\frac{1}{2}$  inches  
Diameter of Shaft.....1 inch  
Weight complete.....38 lbs.  
Price.....\$3.75

Will fit our No. 2 Bench Emery Grinder.  
**No. 4-A-599.** Size No. 3.  
Size of Drive Pulley..... $10\times3\frac{1}{2}$  inches  
Size of Tight and Loose Pulley..... $5\times3$  inches  
Drop of Hanger..... $6\frac{1}{2}$  inches  
Length of Shaft.....24 inches  
Diameter of Shaft.....1 inch  
Weight, complete.....44 lbs.  
Price.....\$4.50

Will fit our No. 3 Bench Emery Grinders.  
**No. 4-A-600.** Size No. 4.  
Size of Drive Pulley..... $12\times4$  inches  
Size of Tight and Loose Pulley..... $6\times3\frac{1}{2}$  inches  
Drop of Hanger.....8 inches  
Length of Shaft.....26 inches  
Diameter of Shaft..... $1\frac{1}{2}$  inch  
Weight complete.....58 lbs.  
Price.....\$5.00

Will fit our No. 4 Bench Emery Grinder.

## No. 4-A-601.

### Size No. 5.

Size of Drive Pulleys..... $12\times4$  inches  
Size of Tight and Loose Pulleys..... $6\times4$  inches  
Drop of Hangers.....9 inches  
Length of Shaft.....30 inches  
Diameter of Shaft..... $1\frac{1}{2}$  inch  
Weight complete.....75 lbs.  
Price.....\$7.00

## BABBITT METAL.

**No. 4-A-602.** We offer babbitt metal of several grades. Intended to be used in bearings of various kinds.

The different grades of babbitt that we offer we guarantee to be of the very best composition for the purpose for which they are intended. The metals used are guaranteed to give firmness and have lasting qualities.

## PREMIER BABBITT.



**No. 4-A-603.** A special mixture embodying anti-friction ingredients, used on high speed engines or in machines where speed and perfect bearings are required. Price, per lb.....\$0.16

## No. 1 BABBITT METAL.

**No. 4-A-604.** A fine composition and has lasting qualities. Intended for general purposes and can be used on machinery running at a medium speed. Price, per lb.....\$0.11

## No. 3 BABBITT METAL.

**No. 4-A-605.** Used for bearings of all kinds of low speed machinery. Price, per lb.....\$0.07

## SOLDER.



**No. 4-A-606.** The very best grade of Plumbers' solder. Comes in bars weighing about  $1\frac{1}{2}$  lbs. Price, per lb.....\$0.19

**No. 4-A-607.** Tinnings' solder. The very best half and half. Comes in bars of about  $1\frac{1}{2}$  lbs. Price, per lb.....\$0.20



# Premier Circular Saws



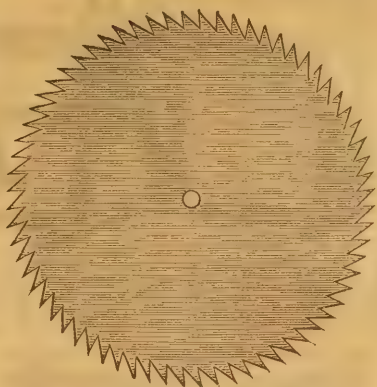
No. 4-A-523.

## Solid Tooth Rip Saw

Our Premier Saws are made of the very best grade of Jessop Saw Steel and are properly oil tempered. Will hold the temper and tension longer than any other saw on the market.

The saws are absolutely true to gauge, perfectly balanced, and by our special process of grinding have a perfectly smooth surface, which adds much to the cutting qualities.

Every blade is placed on a mandrel and carefully inspected. If it varies a thousandth part of an inch it is re-adjusted until it is absolutely true. This not alone applies to large saws but to the smaller ones as well.



No. 4-A-524.

## Solid Tooth Cross Cut Saw

**Terms of Warranty**—Each saw is warranted perfectly true, or as true as it is possible to make it, free from flaws and seams. If found to be defective in any of these particulars it may be returned to us and if on examination, we are satisfied that the saw is at fault, all necessarily repairs will be made free of charge, or a new saw given in

exchange, providing it is returned within 30 days after delivery.

The practice of using a cold chisel or punch for re-toothing a saw is almost certain to distort or crack the plate, and corners filed square in the gullet of the tooth will frequently produce the same result, particularly in frosty weather. Our warranty does not cover saws breaking from either of these causes.

We are in position to make shipment on saws up to and including 40 inches in diameter at once. All saws larger than 40 inches are made to order.

In ordering saws, observe the following:

1. State diameter of Saw.
2. Whether Rip or Cut-off Saw is wanted.
3. Size of hole in Saw.
4. Whether Saw is for right or left hand mill.
5. Number of teeth preferred.
6. Speed of Saw.

This information will enable us to fill your order immediately, and furnish a saw that is especially adapted to your work.

In describing saws we give the standard gauge and size of arbor hole. We can, however, vary from this if desired. On all saws larger than 40 inches we will bevel one gauge without extra charge. That is, make the saw one gauge thinner at the rim than at the hole.

Prices quoted are for saws set and sharpened, ready for use.

## Price List Premier Circular Saws

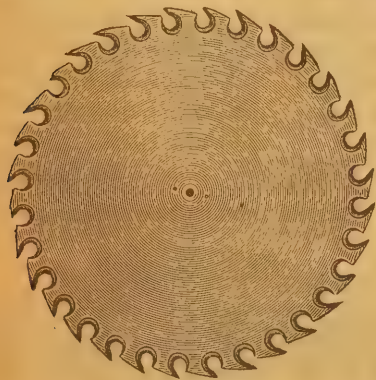
Diameter	Gauge	Size of Hole Inches	Price Each	Diameter	Gauge	Size of Hole Inches	Price Each	Diameter	Gauge	Size of Hole Inches	Price Each
4	19		\$0.45	20	13	1 5-16	\$ 3.60	44	8	2	\$19.40
5	19		.52	22	12	1 5-16	4.35	46	8	2	23.00
6	18		.65	24	11	1 1/2	5.15	48	8	2	27.00
7	18		.74	26	11	1 1/2	6.00	50	7	2	30.00
8	18		.95	28	10	1 1/2	6.75	52	7	2	35.00
9	17		1.10	30	10	1 1/2	7.40	54	7	2	39.00
10	16	1	1.35	32	10	1 1/2	8.60	56	7	2	45.00
11	16	1	1.52	34	9	1 1/2	9.75	58	7	2	50.00
12	15	1	1.75	36	9	1 1/2	10.95	60	6	2	55.75
14	15	1	2.10	38	9	1 1/2	12.00	62	6	2	64.00
16	14	1	2.50	40	9	2	14.10	64	6	2	70.00
18	13	1	2.95	42	8	2	16.35	66	6	2	80.00

## Premier Inserted Tooth Circular Saws

**No. 4-A-525.** Manufactured from the same high grade steel as our solid tooth saws and sold under the same guarantee.

We furnish these saws with the number of teeth as described below. Can furnish them made up special with additional teeth if desired at an extra cost of 40 cents for each extra tooth. The bits used in these saws are made of extra fine steel and given a fine temper. A full set of bits will cut on an average of 75,000 feet of lumber, depending on the care the operator gives them.

We will furnish these saws one gauge lighter or heavier if desired without extra charge.



No. 4-A-525.

Inches Diam.	Gauge	Size of Hole Inches	No. of Teeth	Price Each	Inches Diam.	Gauge	Size of Hole Inches	No. of Teeth	Price Each
30	9	1 1/2	16	\$ 20.30	50	7	2	32	\$ 49.50
32	9	1 1/2	16	22.25	52	6	2	32	57.75
34	9	1 1/2	24	24.20	54	6	2	34	64.35
36	8	1 1/2	24	26.50	56	6	2	34	74.00
38	8	1 1/2	26	28.50	58	6	2	36	81.75
40	8	2	26	31.00	60	5	2	36	89.50
42	8	2	28	33.50	62	5	2	38	97.50
44	7	2	28	36.25	64	5	2	38	107.00
46	7	2	30	40.00	66	5	2	40	117.00
48	7	2	30	44.00					

## POINTS AND HOLDERS FOR PREMIER INSERTED TOOTH CIRCULAR SAWS.

We wish to call your attention to the shoulder supporting the tooth, which does not depend on the rim for support, as other inserted tooth saws do. This style tooth is adapted for high speed saw mill and is the only tooth made that will run on an 8 or 12 inch feed.

**No. 4-A-526.** Extra fine steel bits only. Price, each, \$ 0.03

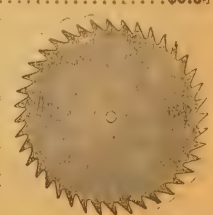
**No. 4-A-527.** Drop Forge, extra holder for points. Price, each, \$ 0.27

**No. 4-A-528.** Premier Inserted Tooth Wrenches. Price, each, \$ 0.50

## PERFECTION CIRCULAR CORD WOOD SAWS.

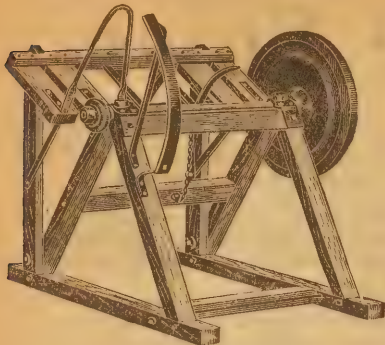
**No. 4-A-529.** Made of special grade crucible steel and the best cord wood saw manufactured. Saws are furnished filed, set and sharpened and ready for use. In ordering, be sure and specify size of arbor hole.

Diam.	Inches Gauge	Price Each	Diam.	Inches Gauge	Price Each
20	13	\$3.00	28	11	\$5.00
22	12	3.50	28	10	5.66
24	11	4.35	30	10	6.33





## TILTING TABLE SAW FRAME.



This is the same frame as we use in connection with our Combination Wood Saw and Pole Saw Frame with the exception that it has not the extension. As it shows in the illustration, it is suitable for sawing cord wood. The arbors are of steel. The bearings long and well babbitted. The machine is well finished. Has a Tilting Table so pivoted that it balances perfectly and is therefore very popular with the sawyers.

Right hand frame furnished unless otherwise specified. Prices quoted are F. O. B. cars factory near Chicago. Weight 275 lbs. Shipped Knocked Down.  
 No. 4-A-497. Complete without Saw.....\$11.75  
 No. 4-A-498. Tilting Table Saw Frame, with 20 inch Saw..... 14.75  
 No. 4-A-499. Tilting Table Saw Frame, with 22 inch Saw..... 15.50  
 No. 4-A-500. Tilting Table Saw Frame, with 24 inch Saw..... 16.25  
 No. 4-A-501. Tilting Table Saw Frame, with 26 inch Saw..... 17.00  
 No. 4-A-502. Tilting Table Saw Frame, with 28 inch Saw..... 17.50  
 No. 4-A-503. Tilting Table Saw Frame, with 30 inch Saw..... 18.25

## SLIDING TABLE WOOD SAW FRAMES.

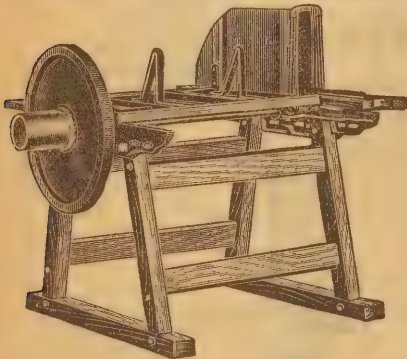


Table is mounted on roller bearings which run on the table guides, and is very easy to operate.

The frame is made of hard wood, well braced and bolted, and is nicely finished. A very substantial and strong frame throughout. The Mandrel is 1 1/2 inch diameter, turned to fit 1 1/2 inch hole in saw. The pulley is 5 inch diameter and has 6 inch face. Weight about 350 lbs.

Right hand frame furnished unless otherwise specified. Prices quoted are F. O. B. cars factory, near Chicago. Shipped Knocked Down.

No. 4-A-504. Complete, without Saw.....\$13.50  
 No. 4-A-505. Sliding Table Saw Frame, with 20 inch Saw..... 16.60  
 No. 4-A-506. Sliding Table Saw Frame, with 22 inch Saw..... 17.20  
 No. 4-A-507. Sliding Table Saw Frame, with 24 inch Saw..... 17.90  
 No. 4-A-508. Sliding Table Saw Frame, with 26 inch Saw..... 18.60  
 No. 4-A-509. Sliding Table Saw Frame, with 28 inch Saw..... 19.50  
 No. 4-A-510. Sliding Table Saw Frame, with 30 inch Saw..... 20.30

## SIDE FILE.

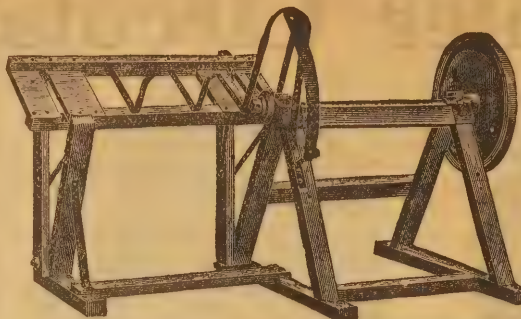


Used for finishing the sides of teeth after they have been set, which will cause the saw to run much longer without sharpening.

No. 4-A-532. Price each with file, complete.....\$0.75

No. 4-A-533. Extra files of first class quality. Price each.....\$0.30

## COMBINATION WOOD SAW AND POLE SAW FRAME



The frame is made of heavy, hard-wood, extra well braced, and bolted and is arranged for sawing either long poles or regular cordwood.

The saw guard is adjustable for saws from 20 to 30 inches in diameter. The Mandrel is 1 1/2 inch diameter and turned down to fit 1 1/2 inch hole in saw, and is 4 feet 1 inch long. Balance wheel weighs 95 lbs. Pulleys 5 inch diameter, 6 inch face. Weight complete with Extension Table about 300 lbs.

Right hand frame furnished unless otherwise specified. Prices quoted are F. O. B. cars factory near Chicago. Shipped Knocked Down.

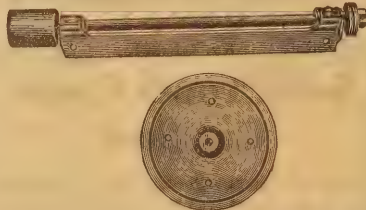
No. 4-A-490. Price, complete with Extension.....\$12.25

No. 4-A-491. With Extension Table and 20 inch saw..... 15.45

No. 4-A-492. With Extension..... 16.20

Table and 20 inch Saw..... 17.00  
 No. 4-A-493. With Extension Table and 24 inch Saw..... 17.00  
 No. 4-A-494. With Extension Table and 26 inch Saw..... 17.75  
 No. 4-A-495. With Extension Table and 28 inch Saw..... 18.60  
 No. 4-A-496. With Extension Table and 30 inch Saw..... 19.40

## MANDRELS AND BALANCE WHEELS.



We offer for the convenience of those who wish to build their own saw frames the following parts:

No. 4-A-518. Mandrel only 1 1/2 inch diameter, 4 ft. 1 in. long, turned down to fit hole in saw 1 1/2 in. Weight about 35 lbs. Price.....\$2.65

No. 4-A-519. Babbitted connected boxes. Weight 35 lbs. Price..... 1.60

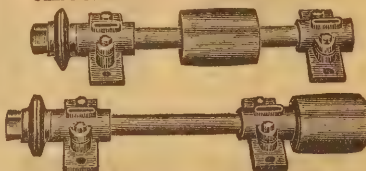
No. 4-A-520. Balance wheel. Weight 95 lbs. Price..... 2.75

No. 4-A-521. Belt Pulley 6 in. diameter, 6 in. face, weight 11 lbs. Price..... .88

No. 4-A-522. For Mandrel shaft complete balance wheel, boxes, belt pulley. Weight 172 lbs. Price..... 7.75

Note—When ordering pulley and balance wheel separately, they will be furnished to fit 1 1/2 inch shaft unless otherwise stated.

## CIRCULAR SAW MANDRELS.



We guarantee these to be the best mandrels constructed. Bearings are extra long and made of special chilled iron and are babbitted with frictionless metal, insuring easy running.

The shaft is cold rolled steel. Thread is lathe cut and the flanges turned up and are absolutely true.

No. 4-A-530. Pulley in the center.  
 No. 4-A-531. Pulley on right hand side, with left hand thread.

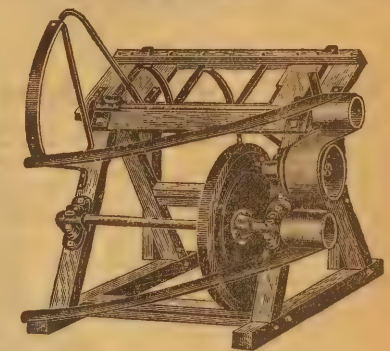
Size	Diam. Face of Length	Diam. Hole in Pulley	Price Each	
1	2 1/2	3 1/2	1 1/2	\$ 3.50
2	3	4	1 3/4	3.75
3	3 1/2	4 1/2	1 5/8	4.25
4	4	5	1 7/8	4.75
5	4 1/2	5 1/2	1 7/8	5.25
6	5	6	1 7/8	5.65
7	5 1/2	6 1/2	1 7/8	6.40
8	6	7	1 9/8	7.95
9	7	8	1 11/8	9.35
10	8	9	1 13/8	10.75



## PREMIER SAW SHARPENER.

No. 4-A-539. Hand sharpener and gummer. This machine will sharpen saws from 14 to 72 inches diameter. It is well built, strong and heavy. The tight pulley on countershaft is 5 inch diameter, 2 1/2 inch face, speed of countershaft 1200 revolutions per minute, arbor 1/2 inch in boxes and 1 inch between collars. Will carry 14 inch wheels under guard. Shipping weight 400 lbs. Price, Saw Sharpener complete, without Emery Wheel.....\$30.00

## TILTING TABLE POLE SAW FRAMES.



The frames are constructed of hard wood, well braced and bolted, and are in every sense substantially and strongly built. The wheel is on a separate shaft, entirely out of the way so that long poles may be sawed as well as cord wood. The power is fed direct to saw. The belt passes around an idler pulley to the shaft, giving speed and well balanced motion to the saw.

The Mandrel is 1 1/2 inch diameter and turned down to fit saw with 1 1/2 inch hole. The pulley is 5 inch diameter 6 inch face. Balance wheel weighs 95 lbs. Weight complete 390 lbs. Takes saw up to 30 inches.

Right hand frame furnished unless otherwise specified. Prices quoted are F. O. B. cars factory, near Chicago. Shipped Knocked Down.

No. 4-A-511. Pole Saw Frame, without Saw.....\$14.75

No. 4-A-512. Tilting Table Pole Saw Frame with 20 inch Saw..... 17.75

No. 4-A-513. Tilting Table Pole Saw Frame with 22 inch Saw..... 18.25

No. 4-A-514. Tilting Table Pole Saw Frame with 24 inch Saw..... 19.10

No. 4-A-515. Tilting Table Pole Saw Frame with 26 inch Saw..... 19.75

No. 4-A-516. Tilting Table Pole Saw Frame with 28 inch Saw..... 20.50

No. 4-A-517. Tilting Table Pole Saw Frame with 30 inch Saw..... 21.00

## MITER DUPLEX SAW SWEDGES.



Very popular with the sawyers and will give the teeth proper spread, causing the saw to cut easily.

No. 4-A-534. Size No. 0 for small thin saws.....\$2.50

No. 4-A-535. Size No. 1 for 10 to 14 gauge..... 3.20

No. 4-A-536. Size No. 2 for 8 to 12 gauge..... 3.85

No. 4-A-537. Size No. 3 for 5 to 10 gauge..... 4.50

## MIXTER'S CHAMPION SAW GUMMER.

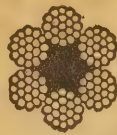


No. 4-A-538. For circular saws. Made of the best material and guaranteed fully in every particular. It is adjustable to various kinds and sizes of saws and will cut tooth at any angle. Has positive automatic teeth and is furnished complete with three cutters. One each. Size 1/4 and 1 inch. One Cutter, Grinder and Wrench. Price, complete.....\$15.00



# STEEL CABLE AND ROPE.

## BRAND NEW CRUCIBLE STEEL WIRE ROPE.

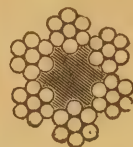
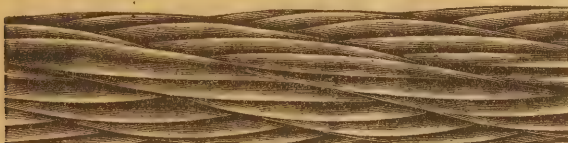


**No. 9-A-3.** Six strands, 19 wires to the strand, laid around a hemp center. This rope is particularly adapted to service in mines, for logging, on elevators, derricks, hay presses, and hoists of all kinds.

Approx. breaking strain			Approx. breaking strain		
Diam. Inches	Weight per ft. in lbs.	Price per ft.	Diam. Inches	Weight per ft. in lbs.	Price per ft.
1/4	0.10	2.4	1/2	0.89	19.4
5/16	0.22	5.4	3/4	1.20	26
3/8	0.39	8.8	1	1.58	34
7/16	0.62	13.6	1 1/4	2.45	42
		\$0.04 1/2			\$0.09
		.04 1/4			.11 1/2
		.05 1/4			.15
		.07			.19

## SWEDISH STEEL WIRE ROPE.

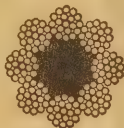
Brand New.



**No. 9-A-4.** Composed of six strands, hemp center, each having 7 wires. This rope is used principally for transmission of power over large sheaves or drums. This rope is not flexible enough to be used over small sheaves or drums. Note minimum diameter of drum or sheave in table below.

Diam. Inches	Weight per ft. in lbs.	Approx. breaking strain in tons of 2000 lbs.	Minimum diam. of drum or sheave	Price per ft.
1/4	0.22	2.4	2 1/2	\$0.02 1/2
5/16	0.39	4.2	3 1/2	.03 1/2
3/8	0.62	6.6	4 1/2	.05 1/2
7/16	0.89	9.3	6	.07 1/2
1	1.20	12	7	.09 1/2
1 1/4	1.58	16	8	.12 1/2

## EXTRA FLEXIBLE WIRE ROPE.



**No. 9-A-5.** Brand new. Composed of 8 strands and a hemp center, each strand having 19 wires. This rope has two more strands and smaller wires than the regular 6 strand rope, and is especially adapted for running over comparatively small sheaves on derricks, coal handling machinery, cargo hoisting, pile drivers, logging purposes and transmission of power.

On account of the somewhat larger hemp center, the strength is less than that of the regular 6 strand rope, but under many conditions where extreme pliability is required, this extra flexible rope, owing to its ability to withstand severe bending, retains its strength longer than the stiffer 6 strand rope.

Diam. Inches	Weight per ft. in lbs.	Approx. breaking strain in tons of 2000 lbs.	Minimum diam. of drum or sheave in inches	Price per ft.
1/4	0.66	1.6	4	\$0.05
5/16	0.18	3.3	5	.05 1/2
3/8	0.31	6.6	6	.06 1/2
7/16	0.53	11.6	8	.08 1/2
1	0.89	16.5	14	.10
1 1/4	1.05	21	14	.13
1 1/2	1.32	27	18	.17

## BRAND NEW HAWSER LAID MANILA DRILLING ROPE.



**No. 9-A-2.** The Hawser Laid Manila Rope is used generally for well drilling purposes, and it is very necessary that rope used for this purpose be well made and of the very best quality, pure, long fibre manila. We offer this rope as the very best quality manufactured. It is made of the best grade of manila hemp. Nothing but the best fibre is used. It is laid up by experienced rope makers in a compound that lubricates and protects it from water and weather.

Size Inches	Price per ft.	Size Inches	Price per ft.	Size Inches	Price per ft.
1/4	\$0.03	1 1/4	\$0.06 1/2	1 1/2	\$0.09
5/16	.04	1 1/2	.08	1 3/4	.10
3/8	.05 1/2				

## GALVANIZED STEEL WIRE STRAND.

Brand New.

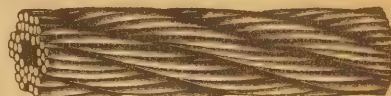


**No. 9-A-5.** This strand is composed of 7 wires, twisted into a single strand. Is used for guys on smoke stacks, telegraph and telephone poles and many other purposes.

Diam. Inches	Approx. Strength in lbs.	Weight per ft.	Price per 100 ft.
1/4	2300	1.25	\$0.85
5/16	5000	3	1.35
3/8	8500	5	2.00

## GALVANIZED IRON WIRE ROPE.

Brand New.



**No. 9-A-7.** For derrick guys, etc. Not suitable to run over drums or sheaves. Composed of 6 strands and hemp center, 7 wires to the strand.

Diam. Inches	Weight per Ft.	Approx. Breaking Strain in tons of 2000 lbs.	Price per Ft.
1/4	0.20	1.8	\$0.02 1/2
5/16	0.36	3.2	.03 1/2
3/8	0.64	5.8	.04 1/2
7/16	0.81	7.3	.05 1/2
1	1.21	11	.07 1/2
1 1/4	1.44	13	.08 1/2

## IRON SHEAVES FOR WIRE ROPE.

Deep Grooves, Common Iron Bushed, Brand New.



**No. 11-A-25.** These sheaves as priced below are to run loose on the shaft. We cannot furnish them bored for larger sized shaft than specified, nor can they be fitted with set screws or key seated.

Diam. Sheave Inches	Length Through Hub Inches	Size of Hole for Shaft Inches	For Wire Rope Diam. Inches	Price Each
4	1	1	1	\$0.27
6	1	1	1	.42
6	1	1	1	.45
8	1	1	1	.75
8	1	1	1	.90
10	1	1	1	1.05
10	1 1/2	1 1/2	1 1/2	1.26
12	1 1/2	1 1/2	1 1/2	1.74
12	1 1/2	1 1/2	1 1/2	1.90
14	1 1/2	1 1/2	1 1/2	2.10
14	1 1/2	1 1/2	1 1/2	2.25
14	1 1/2	1 1/2	1 1/2	2.55
16	1 1/2	1 1/2	1 1/2	2.35
18	1 1/2	1 1/2	1 1/2	4.00
18	2	1 1/2	1 1/2	5.00

## GUARANTEED PURE MANILA ROPE.

Made of selected Long Pure Manila fiber. Our rope is not mixed with sisal or any other cheaper fibers, but is guaranteed to be strictly pure long manila fiber of the very best quality. We furnish this rope in connection with Hay Carrier outfits, which are described on page 226. The 1/4-inch is used for the Trip and the 1/2-inch is generally used for the Carrier, although in connection with our outfits either the 1/4-inch or the 1/2-inch rope can be used.

No. 9-A-1	Size, Inches	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2
Price, per foot		2c	3c	4c	5c	6c	7c	8c	9c





# BLOCK AND TACKLE

## IRON STRAPPED WOOD SHELL TACKLE BLOCKS.

Single Double Triple



These blocks are of the best possible construction. Have special chilled steel pins and iron sheaves with edges properly rounded to prevent the rope from fraying.

We can furnish these blocks either with or without becket. When used in pairs, one should be plain and the other with becket. When becket is required, be sure to order accordingly. Price of blocks with or without the becket is the same.

These blocks are to be used only for manila rope. You cannot use wire rope or chain in connection with these blocks.

No. 4-A-414. Without becket.

No. 4-A-415. With becket.

Diam. of Rope	Length of Shell	Single Pulley	Double Pulley	Triple Pulley
3	3	\$0.16	\$0.30	\$0.40
4	4	.19	.38	.50
5	5	.20	.42	.55
6	6	.26	.47	.70
7	7	.30	.56	.82
8	8	.39	.67	1.00
10	10	.65	1.10	1.45
12	12	1.05	1.70	2.50
14	14	1.80	2.75	3.75
15	15	2.20	3.50	4.50

## STANDARD STEEL TACKLE BLOCKS. For Manila Rope.

Single Double Triple



These are lighter than wood blocks and equally as strong. Are made with forged steel hooks, straps, pins and shells. Straps extend full length of shell, giving strength and rigidity to the blocks and furnishing proper support for becket. Shells have nicely rounded edges to protect rope. These blocks are intended for use with manila rope only. You cannot use wire rope or chain.

No. 4-A-416. Without becket.

No. 4-A-417. With becket.

Diam. of Rope	Length of Shell	Single Pulley	Double Pulley	Triple Pulley
3	3	\$0.17	\$0.31	\$0.42
4	4	.20	.39	.50
5	5	.22	.43	.55
6	6	.27	.48	.70
7	7	.32	.57	.83
8	8	.40	.68	1.00
10	10	.66	1.08	1.45

## STANDARD WOOD SHELL IRON STRAPPED SNATCH BLOCKS.



No. 4-A-418.	Size of Sheave	Diam. of Rope	Length of Shell	Price Each
1	3 x 1 1/2	1	6	\$1.50
2	3 x 1 1/2	1	7	1.80
3	4 x 1 1/2	1	8	2.15
4	5 x 1 1/2	1	9	2.50
5	5 x 1 1/2	1 1/2	10	3.00
6	6 x 1 1/2	1 1/2	12	3.60
7	8 x 2 1/2	1 1/2	14	5.00
8	9 x 2 1/2	2	16	6.25

## STEEL SNATCH BLOCKS.

No. 4-A-419. These blocks are much stronger than other metal and wood shell blocks, and they are practically indestructible. The shell is made of special wrought steel, edges nicely rounded to prevent the rope from wearing, and will outlast the cheaper metal blocks. The steel block we can recommend for the heaviest work.

Can not be used with wire rope or chain.

Size of Sheave	Diam. of Rope	Length of Shell	Price Each
3 x 1 1/2	1	6	\$2.00
3 x 1 1/2	1	7	2.20
4 x 1 1/2	1	8	2.80
5 x 1 1/2	1 1/2	9	3.20
5 x 1 1/2	1 1/2	10	3.60
6 x 1 1/2	1 1/2	12	4.60
8 x 2 1/2	1 1/2	14	6.00
9 x 2 1/2	2	16	8.00

## WIRE ROPE BLOCKS.

No. 4-A-420. These blocks are specially designed to be used in connection with wire hoisting rope, having large sheaves.

You cannot use the wood and iron shell manila rope tackle blocks in connection with the wire rope owing to the fact that the sheaves are too small to permit the wire rope running freely over them.

Diam. of Rope	Single	Double	Triple
Shv. In.	Each	Each	Each
10 1/2 and less	\$5.25	8.00	\$10.65
14	7.45	10.25	13.85
16	8.50	11.25	16.00



## WESTON DIFFERENTIAL CHAIN HOIST.

No. 4-A-421. Tested to full weight before shipment. This is the simplest and cheapest type of chain hoist, and has the fewest parts of any hoist made. The chains are specially made, are finely finished and carefully hardened to prevent wear. This hoist will hold a load at any point. Each hoist is guaranteed fully in every particular.

Capacity Tons	Will lift feet	Price Complete	Extra Chain per Ft.
1	6	\$6.38	\$0.25
1 1/2	7	7.58	.25
2	8	9.87	.27
2 1/2	8 1/2	13.65	.29
3	9	17.65	.31
3 1/2	10	22.50	.35

Four feet of extra Chain required for every foot of extra lift.



## IMPROVED SCREW CHAIN HOIST.

No. 4-A-422. These hoists are powerful and compact. They are extensively used for all classes of work. They are much easier to operate than the Differential Hoist, inasmuch as they are geared up. The gearing is enclosed in oil tight housing and the working parts are thus always immersed in oil, insuring smooth action and thorough lubrication.

Capacity Tons	Wt. lbs.	Will lift feet	Price Complete	Extra lift Price per Ft.
1	50	8	\$20.00	\$1.00
1 1/2	60	8	24.00	1.20
2	76	8	32.00	1.40
2 1/2	125	9	40.00	1.60
3	190	10	50.00	1.75
4	210	10	75.00	1.90

The Fastest Chain Hoist Made.

## BURE STEEL SAFETY LIFTS.

These lifts are thoroughly practical and are much less expensive than the chain hoists. Are used largely by contractors, bridge builders, grocers, farmers, in fact can be used anywhere it is necessary to raise heavy weights. These lifts are made of the highest quality of steel and are practically indestructible. They have no wedge, eccentric springs or teeth that will get out of order. The brake against which the rope is locked is smooth and therefore cannot injure the rope.

These lifts are designed to be used in connection with manila rope only. Prices quoted do not include the rope.

No. 4-A-423. Size No. 3, for 1/2 inch rope. One man can hoist 300 lbs. Double lower block, weight 4 1/2 lbs. Capacity 800 lbs. Price.....\$0.90

No. 4-A-424. Size No. 4, for 3/4 inch rope. One man can hoist 350 lbs. Double lower block, weight 6 1/2 lbs. Capacity 1,500 lbs. Price.....1.70

No. 4-A-425. Size No. 5, for 1 inch rope. One man can hoist 400 lbs. Double lower block, weight 11 lbs. Capacity 2,000 lbs. Price.....\$2.20

No. 4-A-426. Size No. 6, for 1 1/2 inch rope. One man can hoist 450 lbs. Double lower block, weight 17 lbs. Capacity 2,500 lbs. Price.....2.65

No. 4-A-427. Size No. 4 1/2, for 1 1/2 inch rope. One man can hoist 600 lbs. Triple lower block, weight 10 lbs. Capacity 3,000 lbs. Price.....3.15

No. 4-A-428. Size No. 5 1/2, for 1 1/2 inch rope. One man can hoist 700 lbs. Triple lower block, weight 20 lbs. Capacity 3,500 lbs. Price.....3.75

No. 4-A-429. Size No. 6 1/2, for 2 inch rope. One man can hoist 850 lbs. Triple lower block, weight 28 lbs. Capacity 5,000 lbs. Price.....4.35

## HARD MAPLE ROLLERS.

For House and Machinery Moving.



No. 4-A-430. These rollers are turned from air seasoned, quarter-sawn rock maple squares. They are free from hearts. Only the best and toughest part of the log being used. All rollers are treated with boiled linseed oil and ends are painted before shipment.

Guaranteed to be the best possible to produce.

Diam. Inches	Length Feet	Price Each	Diam. Inches	Length Feet	Price Each
3	3	\$0.35	5 1/2	6	\$1.60
3 1/2	4	.42	6	3	1.05
3 3/4	3	.50	6	4	1.30
3 1/2	4	.60	6	4 1/2	1.50
4	3	.55	6	5	1.80
4 1/2	4	.70	6	6	1.85
4	5	.58	7	3	1.40
4 1/2	3	.77	7	3 1/2	1.75
5	4	.95	7	4 1/2	2.10
5 1/2	5	1.20	7	5	2.20
5	6	1.35	7	6	2.52
5 1/2	5	1.40	7 1/2	7	3.00

## IRON ROLLERS.

No. 4-A-431. Made of Light Tubing. Can furnish in lengths from two to twelve feet.

Approx. Weight Outside diam.	Price per ft.	Approx. Weight Outside diam.	Price per ft.
2 1/2	\$0.07	4 1/2	\$0.16
2 1/2	.09	5	.18
3	.11	6	.25
3 1/2	.12	8	.50
4	.14		



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## 14,000 Rods of the Celebrated U. S. POULTRY FENCE AT LESS THAN FACTORY PRICES

HERE IS A RARE CHANCE to make a "Big Money Saving" on the Best Poultry Fence made; for this well-known brand of Poultry Fence is carried in all first-class hardware stores and sold at about double the price we ask.

All fence manufacturers concede the "U. S. Poultry Fence" to be the best poultry fence ever designed, and most manufacturers have copied this style almost in every detail, which is a compliment to the "U. S." poultry fence.

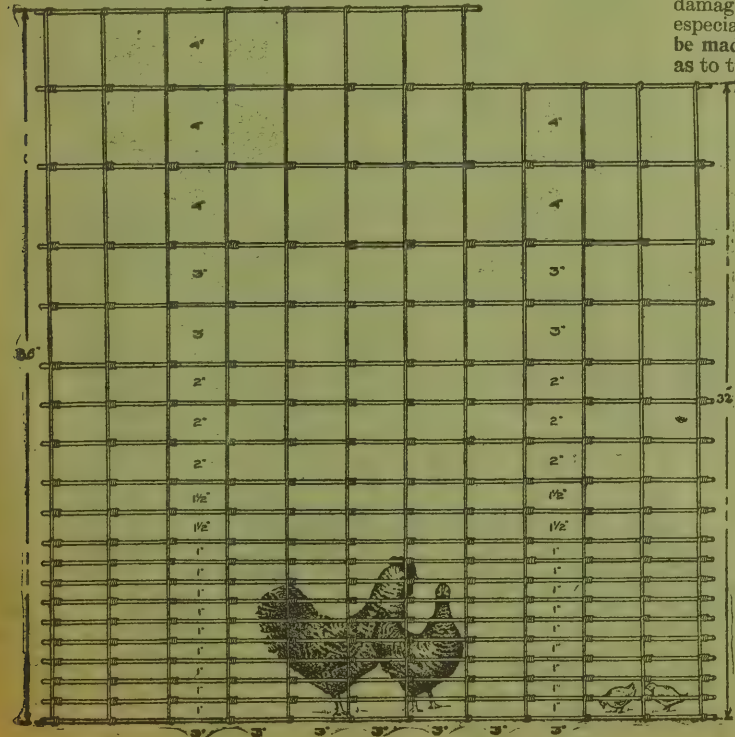


Illustration shows spacing of uprights and line wires.

We consider ourselves exceedingly fortunate to be able to give our customers the benefit of such a bargain and hope that you will appreciate same by ordering promptly.

### Remember this is Poultry Fence, not Poultry Netting

and can be put up and used put up, the same as a regular fence, without top rail or bottom rail, and in erecting a large amount a fence stretcher can be used and a heavy strain applied without damaging the fabric in the least. This High-class Poultry Fence is especially adapted for poultry and rabbits and is the best that can be made regardless of cost, and the mesh at the bottom is so close as to turn the smallest poultry or animals.

IT IS EASY TO HANDLE, easily erected and makes a splendid appearance. Also would do well for yard division fence and lawns. It will turn rabbits, dogs, cats, and is just the thing for poultry yard, poultry coop, or garden, flowers or trellises.

### GALVANIZED STEEL WIRE THROUGHOUT

Top and bottom wires, No. 15.  
Intermediate or line wires No. 16.  
Stays or uprights, No. 17.  
All uprights or stays spaced 3 inches apart.  
32 inches high has 19 line wires spaced as shown in illustration.  
36 inches high has 20 line wires spaced as shown in illustration.

### QUALITY, SIZE and OUR "BARGAIN PRICES"

- No. A-24-3200. 1566 rods, 32 in. high, "U. S." Poultry Fence. Weight, 6 lbs. per rod. (Put up in 9 rod rolls.) Price per rod.....24c or \$2.16 per roll.  
No. A-24-3209. 3942 rods, 36 in. high, "U. S." Poultry Fence. Weight 6½ lbs. per rod. (Put up in 9 rod rolls.) Price per rod.....26c or \$2.34 per roll.  
No. A-24-3210. 8520 rods, 36 in. high, "U. S." Poultry Fence. Weight 6½ lbs. per rod. (Put up in 10 rod rolls.) Price per rod.....26c or \$2.60 per roll.

ACT QUICK AND ORDER AT ONCE if you wish to reap the benefit of these special bargain prices. We can furnish any quantity wanted from 9 rods and up, but will not cut a bale for less than 9 rods.



“Perfection” Ornamental Lawn Fence and Gates



The “Perfection” Lawn Fence is made especially for enclosing the lawn, also as a yard division fence, and we have combined strength, durability and beauty in the simple and practical yet ornamental design as illustrated.

In no way can you add more to the beauty of a home or its surroundings than by your taking advantage of the remarkably low prices we make on the “Perfection Lawn Fence,” and enclose your lawn with this fence at a small cost in comparison to the price on the old style of iron fence. Besides it gives a certain exclusiveness to your residence. It keeps out all small animals. Provides protection for your children when at play.

Perfection Ornamental Fence is made entirely of heavy steel wire, thoroughly galvanized, making it proof against rust and the twisted cables allow for expansion and contraction, and the uprights are placed 2½ inches apart, so that children cannot climb this fence. The close weaving of these pickets turns small animals. Perfection Fence always remains rigid, straight and tight under all conditions.

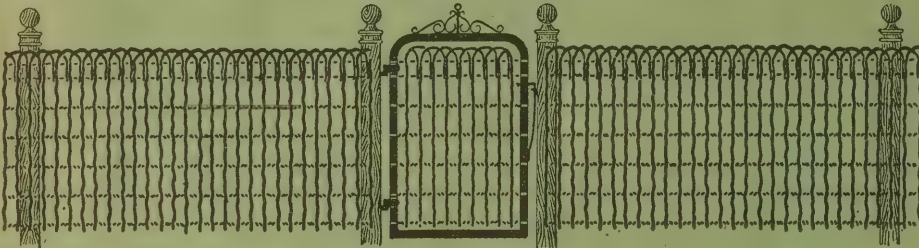
Perfection Ornamental Gates give a finish to the fence, and are substantially built, so to give you long and most satisfactory service.

Illustration shows 35 inch high Perfection Ornamental Fence erected on wood posts with pipe railing above.

“Perfection” Ornamental Fence Erected on Wood Posts

HOW MADE.

Pickets are heavy No. 9 Galvanized Wire. Cable Wires are two No. 12 Galvanized Wires, twisted together. Two top cables are spaced 2½ inches apart; other cables are spaced 5½ to 6 inches apart.



HOW TO ORDER.

Always state the height of Fence you wish and the number lineal feet; also the width and height of gates and send a sketch of the ground plan. You can also include in your order the Cedar Fence Posts as quoted below.

Simple instructions for erecting sent with each order, no previous experience being necessary.

The above illustration shows our Perfection Lawn Fence erected on wood posts, without any top or bottom rail, as this is not needed owing to the great strength and rigidity of Perfection Lawn Fence. This fence is made of the highest grade Bessemer steel wire, heavily galvanized. Pickets are crimped which gives them great strength and also adds to the beauty of the fence. Pickets are placed 2½ inches apart, which makes fence exceedingly stiff and very durable.

Perfection Lawn Fence can be furnished in any continuous lengths up to 300 feet. (Prices on gates given elsewhere.)

EXTRA FOR PIPE RAIL. As shown on fence in the house illustrated above pipe rail. This protects the entire fence and adds to the appearance.

Sizes and Prices.

No.	Height.	Weight per Ft.	No. of Running Cables.	Price per Running
24-A-300. Perfection Lawn Fence.	24 in.	1½ lbs.	5	8c
24-A-301. “ “ “	30 in.	1½ lbs.	6	9c
24-A-302. “ “ “	35 in.	1½ lbs.	7	10c
24-A-303. “ “ “	40 in.	2 lbs.	8	11c
24-A-304. “ “ “	46 in.	2½ lbs.	9	13c

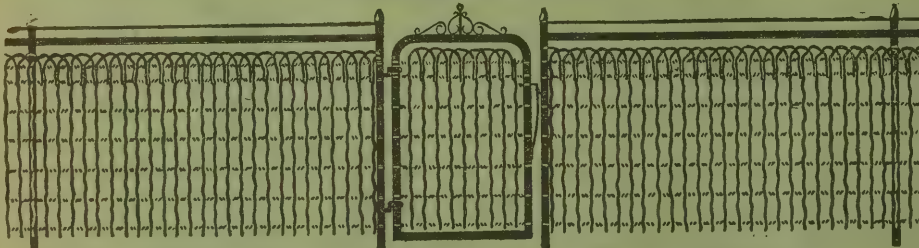
No. 24-A-310. White Cedar Posts with ornamental turned ball-top; 6 in. diameter by 6, 7 or 8 ft. high. (State length you wish.) Price, each 65c

Order Fence as quoted above and add 6c per foot for the heavy

“Perfection” Lawn Fence with Steel Post, Steel Rail and Braided Wire

HOW MADE.

The Woven Wire Fabric in Fence is heavy No. 9 Galvanized Wires in uprights and cables are made of two No. 12 Galvanized Wires. Two top cables are spaced 2½ inches apart, other cables spaced 5½ to 6 inches apart.



EASY TO ERECT.

With each order we send a diagram showing the location of the different posts, also simple instructions for erecting, as no previous experience is necessary and any handy man can make a most satisfactory job.

Illustration shows our Perfection Ornamental Lawn Fence erected on steel posts, with steel rail and braided wire above, which makes a complete steel construction. We use extra heavy posts, 2 inches in diameter, and malleable fittings throughout, giving the completed fence the strongest possible construction, so as to give you a life long service.

HOW TO ORDER “Perfection Fence” with all steel construction. Always send diagram showing location of posts, also allow the price per foot for the entire length of fence and add the cost of gate to the total price, as example, viz.

Example No. 1.	
33-ft. Gate 3-ft. 30-ft.	X
Total length 66 feet	
66 ft.—No. 24-A-315. Perfection Ornamental Fence, with steel posts and steel rail, etc., complete.	\$21.78
1—No. 24-A-250. Perfection walk gate 3 ft. wide by 3 ft. high	2.50
Total.	\$24.28

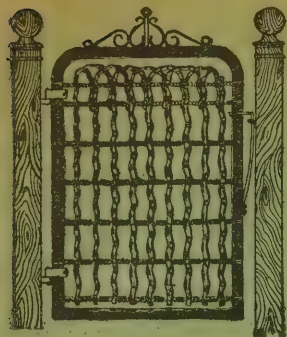
No.	Height Complete Fence.	Weight per Ft.	Price per Ft.
No. 24-A-315.	30 in.	5½ lbs.	33c
No. 24-A-316.	36 in.	5½ lbs.	35c
No. 24-A-317.	42 in.	6 lbs.	37c
No. 24-A-318.	48 in.	6½ lbs.	40c
No. 24-A-319.	54 in.	6½ lbs.	45c

Example No. 2.

Example No. 2.	
Gate 40-ft. 3-ft. 27-ft.	X
Total length 80 feet	
80 ft.—No. 24-A-315. Perfection Ornamental Fence, with steel posts and steel rail, etc., complete.	\$26.04
1—No. 24-A-250. Perfection walk gate 3 ft. wide by 3 ft. high.	2.50
1—No. 24-A-281. Perfection Ornamental Drive Gate 10x3 ft.	5.00
Total.	\$33.54

We give the above examples so that you become familiar with how to order. Yet if in doubt, send us a sketch showing the ground plan, the gate openings, giving all measurements, the height and style of fence and gate you wish, when we will make you a complete estimate of cost delivered to your depot.

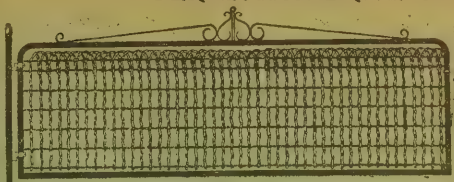




**No. 24-A-250. Perfection Single Walk Gate, 3 ft. wide, 3 ft. high...\$2.50**  
**No. 24-A-251. Perfection Single Walk Gate, 3½ ft. wide, 3½ ft. high...\$2.75**  
**No. 24-A-252. Perfection Single Walk Gate, 4 ft. wide, 4 ft. high....\$2.85**

**SPECIAL SIZE GATES MADE TO ORDER. Write us.**

### PERFECTION DRIVE GATE.



improved Automatic Latch for wood posts. If desired we can furnish hinges and latch for tubular steel posts, 1½ in. and 1¾ in. outside diameter. Unless otherwise specified we will invariably furnish these gates with wood post fittings. Shipped direct from our Chicago stock.

Shipped Direct from Our Chicago Stock.							
	Width of Opening	Height of Gate	Price complete		Width of Opening	Height of Gate	Price complete
24-A-275.	8 ft.	2½ ft.	\$4.15	24-A-283.	10 ft.	4 ft.	\$5.45
24-A-276.	8 ft.	3 ft.	4.25	24-A-284.	10 ft.	4½ ft.	5.60
24-A-277.	8 ft.	3½ ft.	4.35	24-A-285.	12 ft.	2½ ft.	5.80
24-A-278.	8 ft.	4 ft.	4.50	24-A-286.	12 ft.	3 ft.	5.90
24-A-279.	8 ft.	4½ ft.	4.65	24-A-287.	12 ft.	3½ ft.	6.00
24-A-280.	10 ft.	2½ ft.	4.90	24-A-288.	12 ft.	4 ft.	6.15
24-A-281.	10 ft.	3 ft.	5.00	24-A-289.	12 ft.	4½ ft.	6.25
24-A-282.	10 ft.	3½ ft.	5.10				



OUR  
LOW  
PRICES  
BRING  
QUICK  
SALES.

**So Act Promptly.**

## Brand New Vertical Engines At "Wrecking Prices"

## Means a Saving of from 30 to 50 per cent

TO YOU IF YOU ORDER PROMPTLY, AS OUR STOCK IS LIMITED.

We have just received a lot of Brand New High Grade Vertical Engines from a special sale and are quoting below some prices upon them that will undoubtedly sell them at once. We would advise that if you are in the market for an engine of this kind that you let us hear from you at once, inasmuch as they will move very fast, as they are undoubtedly bargains at the prices we are quoting. They are Vertical Center Crank, Slide Valve Engines, manufactured by the Mansfield Engineering Co., Mansfield, Ohio. They are modern in construction and design and were built for durability. They are well constructed throughout, built very compactly along the most improved lines. Before shipment every engine undergoes a critical test under steam and is very carefully adjusted so that it is ready to run the moment it is placed in position and given steam.

We consider these engines the most desirable for general purposes where small power is required. They are well proportioned throughout and designed to stand hard work and high speed.

Each engine is furnished complete with Governor, Oil Cups, Throttle Valve and Lubricator and are offered net, F. O. B. cars Chicago, subject to prompt acceptance. We offer them as follows.

LOT No. 8=M=O=2732.

5x5, Five	H. P.	Fly Wheel 20 inch diameter, 3 inch Face								\$ 65.00
7x7, Eight	H. P.	" " 28 " " 4 " "								90.00
7x8, Ten	H. P.	" " 38 " " 4 " "								120.00

**THE GREATEST BARGAIN IN DOORS EVER OFFERED**

**Strictly No. 1 Quality. Brand New. Absolutely Clear in Every Respect**

# CALIFORNIA REDWOOD DOORS

## Letter Copying Presses



We have in stock any number of good, second hand letter copying presses. They are re-painted and overhauled.

No. 4-A-6002.	10x12½	inch Press.....	\$3.00
No. 4-A-6003.	10x15	inch Press.....	3.75
No. 4-A-6004.	11x16	inch Press.....	5.00
No. 4-A-6005.	12x18½	inch Press.....	8.00

When Ordering, always state second choice

LOT C. R. 10-A-1000

1 3-8 inch thick

5 Cross Panel  
O. G. Quality "A"

Quantity doors	Size	Price
41	2ft.x6ft.....	<b>\$1.65</b>
24	2ft.x6ft.6in.....	<b>1.85</b>
26	2ft.4in.x6ft.6in.....	<b>1.90</b>
70	2ft.6in.x6ft.6in.....	<b>1.90</b>
25	2ft.x6ft.8in.....	<b>1.92</b>
27	2ft.4in.x6ft.8in.....	<b>1.92</b>
28	2ft.6in.x6ft.8in.....	<b>1.94</b>
215	2ft.8in.x6ft.8in.....	<b>1.95</b>
28	2ft.10in.x6ft.10in.....	<b>2.30</b>
18	2ft.6in.x7ft.....	<b>2.20</b>
42	2ft.8in.x7ft.....	<b>2.25</b>
19	2ft.10in.x7ft.....	<b>2.35</b>
52	3ft.x7ft.....	<b>2.40</b>

LOT C. B. 10-A-2000

1 1-8 inch thick

4 Panel O. G. Quality "A"

Quantity	Size	Price
doors		
810	2ft.6in.x6ft.6in..	<b>\$1.50</b>
430	2ft.8in.x6ft.8in..	<b>1.60</b>

LOT C. E. 10-A-3000

1 3-8 inch thick

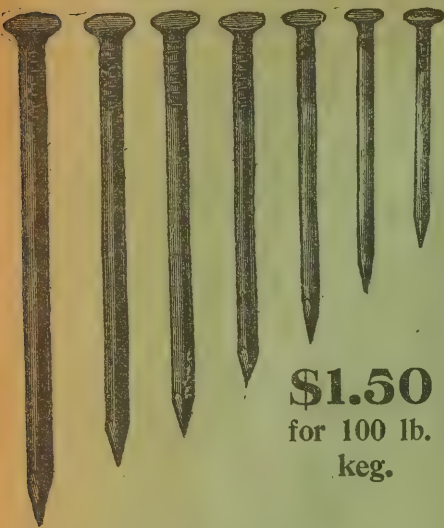
<b>4 Panel O. G. Quality "A"</b>		
360	2ft.6in.x6ft.6in..	<b>\$1.70</b>
100	2ft.6in.x6ft.8in..	<b>1.70</b>
1500	2ft.8in.x6ft....	<b>1.75</b>
320	2ft.10in.x6ft.10in.	<b>2.10</b>
250	3ft.x7ft....	<b>2.25</b>

These doors will outlast  
any other door.  
They are the lightest weight  
door made.

On account of the very low prices we are making on the doors, we can offer same, subject to immediate acceptance and prior sale. In ordering give Lot No. and Size. Prices are net cash f. o. b. cars Chicago. **Order Now,** they will not last long.



## An Assortment of Wire Nails



**\$1.50**  
for 100 lb.  
keg.

We have still an exceedingly large stock of mixed wire nails in sizes from 3d to 30d. We do not guarantee these sizes. By this we mean that we do not guarantee proportion of any particular size, but we do guarantee that all nails are standard sizes and nails that are being sold every day. These are something that every man on the farm should have, as nails are used a dozen times every day and this is the way to buy them. The same quantity bought at retail in the regular way would cost at least \$3.50. For a short time only we are going to put these on sale for \$1.50 per keg, but we are going to put this restriction on the sales; "To no customer will we sell more than three kegs." For a great many years we have been selling mixed nails, but never before have we been in position to quote so low a price and give such a good assortment of nails. Place your order at once if you are interested, as this sale will last only a short time.

No. 4-A-1483. Price, per 100 lb. keg.....\$1.50

## Hog and Poultry Troughs

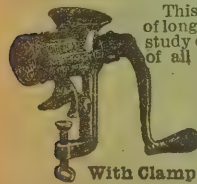


We have 900 of these small size troughs made of heavy galvanized iron; they are asphalted so will not rust, and easy to clean. Especially adapted for farrowing purposes and poultry.

Size—2 feet long, 9 inches wide, 5½ inch deep, with substantial legs.  
No. 19-A-1101. Price, each.....\$5c  
Order promptly, as at above low price stock will not last long.

### MEAT CUTTERS

Purchased at Manufacturers' Sale. Guaranteed Brand New and in Perfect Condition.



With Clamp

insure the clean cutting of all parts to equal fineness, leaving no uncut sinews nor strings. Each cutter has a perforated plate with holes 0.375 inches in diameter.

No. 4-A-1517. Small size for family use. Each.....\$0.75

### JOB OF TWO-MAN CROSS CUT SAWS

No. 4-A-1503. 250 Cross Cut Saws of various kinds and makes, ranging in length from 4 ft. 6 in. to 7 ft. long. They are in good usable condition and most of them are manufacturers' seconds. Sell without regard to selection. All orders filled just as they come.  
Price, per saw.....70c

## Gasoline Torches

Light your dark places well. A poor light is an aggravation and expense. A good light is a joy and profit.

### THE INVINCIBLE TORCH

The Invincible Wall Torch is the best and simplest Torch made, and for street stands, street and building work, tents, camps, steam boat landings, freight sheds, shops and warehouses it is unequalled. It is very little affected by dust, snow or rain, and cannot be blown out by wind. The one gallon tank is strongly made and braced and can be removed if desired. A solid bronze ring is provided to hang it up, and the feed pipe connection is also bronze. The burner is simple, durable and powerful, and like all our burners, is well known to the trade. A bronze check or shut-off valve adds to its safety in case of accident or carelessness. These torches are rapidly gaining in popularity, and their use is being continually extended on account of the effective work done. Our torches give a bright, clear flame scarcely inferior to an arc light in capacity. No. 4-A-1487. Each.....98c



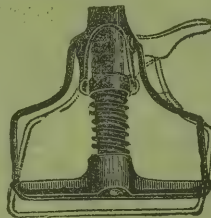
## Mop Handles

### Iron Head Spring Screw Adjuster

No. 4-A-1508.

We bought the entire stock of manufacturer. This is an excellent bargain and no housekeeper should be without them.

Each.....50c



### STRIP ADMISSION TICKETS We Can Make Immediate Delivery.

No. 4-A-1499.

Stock Tickets same as shown in this illustration, plainly printed on one side "Admit One." The back is nicely engraved so that they are easily recognized. They are put up 2,000 to a roll. They are consecutively numbered. We can furnish them in ten different colors. Our prices are as follows:  
In lots of 50,000 or more.....\$0.10  
In smaller quantities......11

We will ship C. O. D. where a deposit of 25 per cent accompanies order. It will, however, save time and expense of paying return charges if you will send the correct amount with your order. All tickets are correctly numbered, perforated and notched. We can not guarantee that the numbers will begin with one or any other particular number.

### SWEEPING MACHINES



No. 4-A-1514. These wonderful sweepers came to us from the World's Fair, St. Louis. They are the most practical sweepers manufactured. Were used in keeping clean the highways of the exposition. They are named the "Peerless" and are fully deserving of the name. Useful for parks, public buildings, factories, theatres, hotels, etc. We have 20 of them. Each, with extra brush.....\$25.00

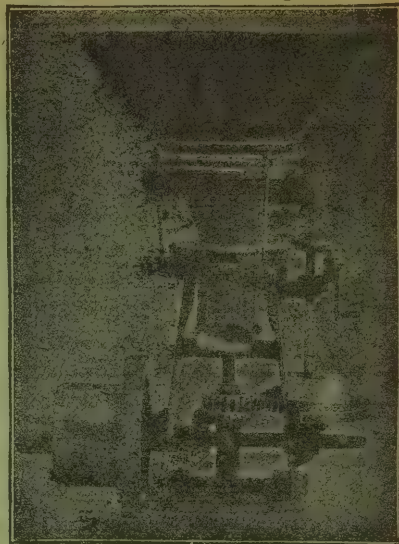
### COLD WATER PAINT

No. 4-A-1498. We have a carload of strictly first class cold water paint equal to any manufactured, that we can furnish only in the following shades:

Buff	Pink
Light Stone	Terra Cotta
Canary	Slate
	Black

Price, per bbl. of 500 lbs.....\$0.02 per lb.  
" 100 lb. lots......02½  
" in less quantities......03

NEW FEED GRINDERS  
Bought at Manufacturers' Sale. We Offer at Less Than Manufacturing Cost.



No. 4-A-1519. This mill has a shut-off in the feed which will allow it to be reduced or increased in capacity as desired, depending upon the amount of power to be used. It has the best cob breaker and the best natural feed. It will not choke and will not heat the grain.

### DIRECTIONS FOR OPERATING.

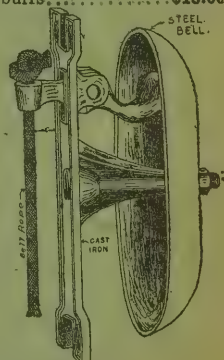
These mills are shipped set up complete, except the hopper, which is easily placed on the mill by putting the three rods in their places and screwing down the thumb screws. Set the mill in line with the power applied; that is, the shaft of the mill must be parallel to the driving shaft. Put smooth side of belt next to pulley and be sure mill is level. Should your mill slip apply castor oil. Before starting mill separate the burs by turning small hand wheel No. 35. After the mill is started adjust the burs to the fineness required. In starting the mill we advise grinding coarse for the first ten minutes, allowing the burs to become warmed and adjusted to the work. Start your mill with the brass cut-off closed, then open to allow the grain to pass in burs in quantity dependent upon the fineness you are grinding and the amount of power you are using. The burs are made of white metal, very hard and true. They are intended to shell corn and all grain for feed purposes.

The mill can be run by belt power, either horse, windmill, engine or electricity, and should be run at a velocity of between 750 and 1,000 revolutions. Price, with extra set of burs.....\$18.00

### Gong Bells

Two hundred Gongs like illustration. They were used on street cars which we dismantled, and are in first class condition in every way. The bell is 9 ins. in diameter and the castings for fastening are 9½ in. long. They are strongly built. Will give good general service. The bell proper is made of a special steel bell metal and gives a good strong sound.

No. 4-A-1516. Price, each.....50c



### DOOR KEYS

We bought the complete salvage stock of J. F. Wollensack, one of the best known manufacturers of locksmiths' supplies in the country. This stock consists of keys of all kinds; that is, flat keys, key blanks, trunk keys, door keys, chest keys; in fact, everything manufactured in the key line. They are all steel and iron keys and they are sold mixed together just as they come.

Prices as follows:

No. 4-A-1518. Single lb. lots.....\$0.20 per lb.
Lots of 5 lbs......06 "
" 10 "......05 "
" 25 "......04 "
" 50 "......03 "
" 100 "......02½ "
" 500 "......02 "



## IRON PIPE ROLLERS.

No. 4-A-432. Made of Heavy Tubing.



Approx. Wt.		Approx. Wt.	
Outside per ft.	Price	Outside per ft.	Price
Diam. lbs.	per ft.	Diam. lbs.	per ft.
2 1/2	\$0.06	5	\$0.30
2 3/4	.08	5 1/2	.34
3	.13	6	.40
3 1/2	.18	7 1/2	.50
4	.20	8 1/2	.70
4 1/2	.25		

## WIRE ROPE CLIPS.

Brand New.

No. 9-A-8. These clips are used to make a loop or an eye at the end of a rope without splicing.

Size for Rope  
Diam. Inches

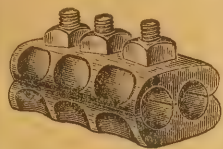
Price	Price
Each	Each
\$0.06	.08
.09	.12
.14	.16
.19	.21
.25	.28
.40	.45



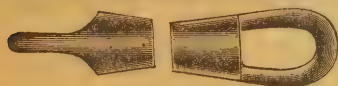
## WIRE ROPE CLAMPS.

No. 9-A-9. For Bridges and Cable Ways.

Size for Rope	Price
Diam. Inches	Each
\$0.25	.30
.40	.60
.60	.80
1.00	1.25
1.25	1.60
1.50	1.90
2.00	2.65



## WIRE ROPE SOCKETS.—Closed Pattern.



No. 9-A-10.		No. 9-A-10.	
Size for Rope	Price	Size for Rope	Price
Diam. Inches	Each	Diam. Inches	Each
\$0.65	\$1.70	1	2.15
1.10	3.00	1 1/2	3.50
1.45			

## WIRE ROPE SOCKET WITH HOOK.

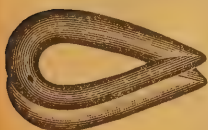


No. 9-A-11.		No. 9-A-11.	
Size for Rope	Price	Size for Rope	Price
Diam. Inches	Each	Diam. Inches	Each
\$1.35	\$2.70	1	3.60
1.60	4.50	1 1/2	5.00
1.90			
2.35			

## GALVANIZED WIRE ROPE THIMBLES.

No. 9-A-12.

Size for Rope	Price
Diam. In.	Each
\$0.03	.04
.04	.06
.06	.07
.08	.09
.10	.15
.12	.18
.15	.25
.20	.35



## PATENT WIRE ROPE HOOKS AND COUPLINGS.

These hooks are made of malleable iron and can be bent cold. The cheapest and simplest fastening for rope manufactured.

No. 9-A-13. Fig. 3. Hook.  
Size 1/2" 1/4" 3/8"  
Price \$0.15 \$ .25 \$ .46

No. 9-A-14. Fig. 5. Ring.  
Size 1/2" 1/4" 3/8"  
Price \$0.15 \$ .25 \$ .46

No. 9-A-15. Fig. 6. Coupling.  
Size 1/2" 1/4" 3/8"  
Price \$0.15 \$ .25 \$ .46



Fig. 3



Fig. 5



Fig. 6

## JACK SCREWS.

No. 4-A-433. The Bell Base of these Jack Screws is made of the toughest gray iron it is possible to obtain. The screws are wrought iron, lathe turned. Every Jack is tested and its carrying capacity is fully guaranteed. Levers are not furnished with the Jacks.

Diam. of Screw	Height of Stand	Lifting Capacity	Price Each
In.	In.	Tons	Each
1 1/2	8	10 1/2	\$0.87
1 3/4	10	12 1/2	1.03
2	12	14 1/2	1.14
2 1/4	14	16 1/2	1.15
2 1/2	16	18 1/2	1.28
2 3/4	18	20 1/2	1.42
3	20	22 1/2	1.42
3 1/4	22	24 1/2	1.35
3 1/2	24	26 1/2	1.55
3 3/4	26	28 1/2	1.69
4	28	30 1/2	1.82
4 1/4	30	32 1/2	1.82
4 1/2	32	34 1/2	1.98
4 3/4	34	36 1/2	2.10
5	36	38 1/2	2.47
5 1/4	38	40 1/2	2.43
5 1/2	40	42 1/2	2.70
5 3/4	42	44 1/2	3.00
6	44	46 1/2	3.24
6 1/4	46	48 1/2	2.90
6 1/2	48	50 1/2	3.20
6 3/4	50	52 1/2	3.58
7	52	54 1/2	3.85
7 1/4	54	56 1/2	4.25



## "PREMIER" BATCHET JACKS.

No. 4-A-434. Easily operated, and can be used in close places. The stand of this Jack is made of tough gray iron and the screw is made of special steel with deep lathe cut thread.

Diameter of Screw . . . . . 2 inches

Height over all . . . . . 23 inches

Lifting capacity . . . . . 25 tons

Price each . . . . . \$ 2.79



## HOUSE RAISING JACKS.

No. 4-A-435. Cast Iron—Brand New.

These Screws are cast with Seamless Threads, which makes them very smooth and uniform.

Diam. of Screw	Height Over All	Price Each
Inches	Inches	Each
3	18	\$1.55
3	20	1.65
3	22	1.85
3	24	1.95
3	26	2.15
3	28	2.25
3	30	2.35
3	32	2.45
3	34	2.55
3	36	2.70

## BARGAINS IN SECOND HAND SELECTED MANILA AND WIRE ROPE.

We are constantly securing Manila and wire rope in our dismantling operations that are in good condition. This rope is carefully selected, and any that we ship we will guarantee to be thoroughly practical for further use.

We offer this second hand rope subject to stock on hand at time of receiving order. In sending us your order, it is advisable to state whether or not it will be satisfactory that we furnish new rope, providing we have not second hand rope in stock.

## SECOND HAND CRUCIBLE STEEL WIRE ROPE.

ineteen Wires to the Strand. Six Strands, Laid Around Hemp Center.



No. 9-A-16. This rope is particularly adapted for service in mines, for logging, on elevators, derricks, hay presses and hoists of all kinds.

Diam. Inches	Weight per ft. in pounds	Price per ft. Selected Second Hand Rope
0.10		\$0.02 1/2
0.12		.03
0.14		.03 1/2
0.16		.04
0.18		.05
0.20		.07
0.22		.08
0.24		.10

## SECOND HAND GALVANIZED WIRE STRAND.

No. 9-A-17. This Strand is composed of seven steel wires, twisted into a single strand.

For Smoke Stack Guys, Electric Light Plants, Street Railways, Signal Cord, Fencing, etc.

Diam. In	Price per 100 ft.
1/2	\$0.50
3/4	.75



## SECOND HAND GALVANIZED IRON WIRE ROPE.

For Derrick Guys, etc.



No. 9-A-18. Not suitable to be run over drums or pulleys.

Composed of six strands and hemp center, seven wires to the strand.

Approximate Diam. Inches	Approximate Weight per ft.	Second Hand Price per ft.
1	0.36	\$0.02 1/2
1 1/4	0.64	.03
1 1/2	0.81	.03 1/2
1 3/4	1.21	.04
2	1.44	.05

## SECOND HAND WIRE ROPE.

No. 9-A-19. 15,000 feet of 1/2 inch Crucible Steel Wire Rope, composed of six strands, 19 wires to the strand. This rope comes in short lengths, ranging from 30 to 150 feet. It is in good, fair second hand condition, but is too short to splice practically.

It is suitable for logging, hoisting and for almost any purpose for which wire rope is generally used.

We offer it at this special price only in lengths as we may have in stock.

Price per foot . . . . . \$0.24

No. 9-A-20. 30,000 feet of 1/2 inch second hand Wire Rope, composed of six strands, 19 wires to the strand in lengths ranging from 30 to 100 feet. This rope is somewhat worn, having here and there a broken wire. It is not recommended for hoisting, but can be used for many other purposes such as logging, fencing, etc.

This rope we offer in such lengths as we have in our stock.

Price per foot . . . . . \$0.01 1/2

No. 9-A-21. 20,000 feet of 1/2 inch Crucible Steel Wire Cable, composed of six strands, 19 wires to the strand. Is in good second hand condition, but in view of the fact it is in short lengths, ranging from 30 to 125 feet we offer it at special price only in such lengths as we have in our stock.

Price per foot . . . . . \$0.03 1/2

No. 9-A-30. 15,000 feet of 1/2 inch Second Hand Cable, composed of six strands, 19 wires to the strand, in lengths ranging from 30 to 100 feet. This Cable is somewhat worn, having here and there a broken wire. It is not recommended for hoisting, but can be used for many other purposes, such as logging, fencing, etc.

This cable we offer in such lengths as we have in our stock.

Price per foot . . . . . \$0.02

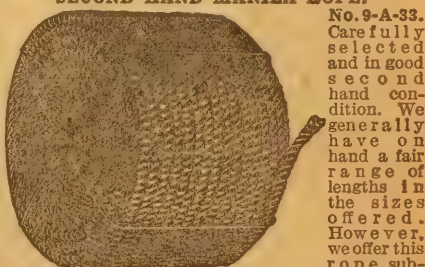
No. 9-A-31. 85,000 feet of 1 1/2 inch Second Hand Crucible Steel Cable, composed of six strands, 19 wires to the strand. This cable is in good second hand condition and runs in lengths up to 1,000 feet.

Price per foot in lengths . . . . . \$0.09

No. 9-A-32. 35,000 feet of 1 1/2 inch Crucible Steel Wire Hoisting Rope in excellent second hand condition. This cable comes in long lengths, ranging from 300 to 2,000 feet. It was previously used on the Chicago City Railway Company's system and was secured by us in connection with our outright purchase of their entire cable plant.

Price per foot . . . . . \$0.10

## SECOND HAND MANILA ROPE.



No. 9-A-33. Carefully selected and in good second hand condition. We generally have on hand a fair range of lengths in the sizes offered. However, we offer this rope sub-

ject to stock on hand at time of receiving order, and in sending in your order it is advisable to state whether or not it will be satisfactory that we furnish new rope should we not have the second hand material at that time.

Diam. Inches	Price per ft.	Diam. Inches	Price per ft.
1/2	\$0.01 1/2	1 1/2	\$0.04
3/4	.02 1/2	1 3/4	.04 1/2
1	.03	2	.06 1/2

No. 9-A-34. 2,000 feet of 2 1/2 inch second hand Manila rope, very best quality in fine condition, strictly pure, long fibre.

It is rope we purchased brand new to be used in a heavy wrecking operation by us. Was only on one job and is in excellent condition. We offer it at 14 cents per foot.



# HAY CARRIER OUTFITS



## STEEL TRACK OUTFITS COMPLETE.

- No. 4-A-647.** For 30 foot barn consisting of:  
1 double swivel Hay Carrier, 30 feet double steel angle track with couplings and bolts, 16 rafter brackets, 16 hanging hooks, 4 floor hooks, 1 short time double harpoon Hay Fork, 3 steel yoke knot passing pulleys, 100 feet  $\frac{1}{2}$  inch manila hay rope, 40 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$10.85
- No. 4-A-648.** For 35 foot barn consisting of:  
1 double swivel Hay Carrier, 35 feet double steel angle track with couplings and bolts, 18 rafter brackets, 18 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 110 feet  $\frac{1}{2}$  inch manila hay rope, 45 feet  $\frac{1}{2}$  inch manila trip rope, 3 steel yoke knot passing pulleys. Price.....\$11.70
- No. 4-A-649.** For 40 foot barn consisting of:  
1 double swivel Hay Carrier, 40 feet double steel angle track with couplings and bolts, 21 rafter brackets, 21 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 120 feet  $\frac{1}{2}$  inch manila hay rope, 50 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$12.65
- No. 4-A-650.** For 45 foot barn consisting of:  
1 double swivel Hay Carrier, 45 feet double steel angle track with couplings and bolts, 23 rafter brackets, 23 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 130 feet  $\frac{1}{2}$  inch manila hay rope, 55 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$13.50
- No. 4-A-651.** For 50 foot barn consisting of:  
1 double swivel Hay Carrier, 50 feet double steel angle track with couplings and bolts, 25 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 140 feet  $\frac{1}{2}$  inch manila hay rope, 55 feet  $\frac{1}{2}$  inch manila trip rope. Price....\$14.00
- No. 4-A-652.** For 55 foot barn consisting of:  
1 double swivel Hay Carrier, 55 feet double steel angle track with couplings and bolts, 27 rafter brackets, 27 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 150 feet  $\frac{1}{2}$  inch manila hay rope, 60 feet  $\frac{1}{2}$  inch manila trip rope. Price....\$15.25
- No. 4-A-653.** For 60 foot barn consisting of:  
1 double swivel Hay Carrier, 60 feet double steel angle track with couplings and bolts, 31 rafter brackets, 31 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 160 feet  $\frac{1}{2}$  inch manila hay rope, 65 feet  $\frac{1}{2}$  inch manila trip rope. Price....\$16.35
- No. 4-A-654.** For 65 foot barn consisting of:  
1 double swivel Hay Carrier, 65 feet double steel angle track with couplings and bolts, 33 rafter brackets, 33 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 170 feet  $\frac{1}{2}$  inch manila hay rope, 70 feet  $\frac{1}{2}$  inch manila trip rope. Price....\$17.35
- No. 4-A-655.** For 70 foot barn consisting of:  
1 double swivel Hay Carrier, 70 feet double steel angle track with couplings and bolts, 36 rafter brackets, 36 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 190 feet  $\frac{1}{2}$  inch manila hay rope, 80 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$18.90

For the convenience of our customers we offer our Hay Carrier Outfits complete. These outfits are such as our experience has taught us to be best adapted for barns of various lengths. Compare our assortment with others and you will find that we furnish a more complete outfit than any other on the market.

The Carriers are extra heavy and have no springs to get out of adjustment and will therefore last for years; in fact, they are practically indestructible. The track is a double steel angle and is furnished in 10 foot lengths. With each outfit we furnish two 5 foot pieces so the joints will not come at the same place, making a stronger and more rigid track than if the lengths were all 10 foot.

The rope is the best quality long fibre pure manila. We wish to call your particular attention to the fact that we furnish longer lengths than usually supplied with Hay Carrier Outfits.

The outfits as described will meet any requirements in barns of the various lengths specified. To save any delay, we strongly advise ordering any of the assortments just as described; however, if changes must be made be sure and allow sufficient amount to cover any extras and thereby avoid any delay which will be caused through the necessity of writing you regarding such changes.

The Hay Rope furnished is  $\frac{1}{2}$  inch diameter. This size is most generally used.  $\frac{1}{2}$  inch or 1 inch rope can be used and for which there will be an extra charge as follows:

For  $\frac{1}{2}$  inch rope. Price, per foot, extra.....\$0.01  
For 1 inch rope. Price, per foot, extra......02

## WOOD TRACK OUTFITS.

(Complete Except Track.)

- No. 4-A-656.** For 35 foot barn consisting of:  
One double swivel Hay Carrier, 14 rafter brackets, 14 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 110 feet  $\frac{1}{2}$  inch manila hay rope, 45 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$8.95
- No. 4-A-657.** For 40 foot barn consisting of:  
1 double swivel Hay Carrier, 16 rafter brackets, 16 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 120 feet  $\frac{1}{2}$  inch manila hay rope, 50 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$8.25
- No. 4-A-658.** For 50 foot barn consisting of:  
1 double swivel Hay Carrier, 20 rafter brackets, 20 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 140 feet  $\frac{1}{2}$  inch manila hay rope, 55 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$9.55
- No. 4-A-659.** For 55 foot barn consisting of:  
1 double swivel Hay Carrier, 22 rafter brackets, 22 hanging hooks, 4 floor yoke knot passing pulleys, 150 feet  $\frac{1}{2}$  inch manila hay rope, 60 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$10.15
- No. 4-A-660.** For 60 foot barn consisting of:  
1 double swivel Hay Carrier, 24 rafter brackets, 24 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 160 feet  $\frac{1}{2}$  inch manila hay rope, 65 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$10.75
- No. 4-A-661.** For 65 foot barn consisting of:  
1 double swivel Hay Carrier, 26 rafter brackets, 26 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 170 feet  $\frac{1}{2}$  inch manila hay rope, 70 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$11.35
- No. 4-A-662.** For 70 foot barn consisting of:  
1 double swivel Hay Carrier, 28 rafter brackets, 28 hanging hooks, 4 floor hooks, 1 double harpoon short time Hay Fork, 3 steel yoke knot passing pulleys, 190 feet  $\frac{1}{2}$  inch manila hay rope, 80 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$11.95

## WIRE CABLE BARN OUTFITS.

- No. 4-A-665.** For 30 foot barn consisting of:  
1 reversible cable carrier, 30 feet  $\frac{1}{2}$  inch galvanized wire cable, 2 eye bolts, 2 cable clamps, 1 center support, 3 steel yoke knot passing pulleys, 4 floor hooks, 1 double harpoon short time Hay Fork, 100 feet  $\frac{1}{2}$  inch manila hay rope, 40 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$7.95
- No. 4-A-666.** For 40 foot barn consisting of:  
1 reversible cable carrier, 40 feet  $\frac{1}{2}$  inch galvanized wire cable, 2 eye bolts, 2 cable clamps, 1 center support, 3 steel yoke knot passing pulleys, 4 floor hooks, 1 double harpoon short time Hay Fork, 110 feet  $\frac{1}{2}$  inch manila hay rope, 45 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$8.90
- No. 4-A-667.** For 50 foot barn consisting of:  
1 reversible cable carrier, 50 feet  $\frac{1}{2}$  inch galvanized wire cable, 2 eye bolts, 2 cable clamps, 1 center support, 3 steel yoke knot passing pulleys, 4 floor hooks, 1 double harpoon short time Hay Fork, 120 feet  $\frac{1}{2}$  inch manila hay rope, 50 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$9.45
- No. 4-A-668.** For 60 foot barn consisting of:  
1 reversible cable carrier, 60 feet galvanized wire cable, 2 eye bolts, 2 cable clamps, 1 center support, 3 steel yoke knot passing pulleys, 4 floor hooks, 1 double harpoon short time Hay Fork, 130 feet  $\frac{1}{2}$  inch manila hay rope, 60 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$10.85

## WIRE CABLE FIELD STACKING OUTFITS.



- No. 4-A-664.** For 50 foot Field stacking outfits consisting of:  
1 reversible cable carrier, 1 double harpoon short time Hay Fork, 150 feet  $\frac{1}{2}$  inch galvanized wire strand, 2 clamps for making loops around end stakes, 2 collars to prevent posts working inward, 2 long bolts for the top of posts, 3 steel yoke knot passing pulleys, 30 feet  $\frac{1}{2}$  inch manila hay rope, 75 feet  $\frac{1}{2}$  inch manila trip rope. Price.....\$11.25
- For  $\frac{1}{2}$  inch instead of  $\frac{1}{2}$  inch manila hay rope, add, per foot extra......01  
For 1 inch instead of  $\frac{1}{2}$  inch add, per foot....02

## DOUBLE SWIVEL HAY CARRIERS. With Improved Locking Device.



Has but two pieces, which makes it an absolutely positive lock. No springs or unnecessary parts to get out of order. Will work either way, by changing pulley from one end of the barn to the other, making it unnecessary to untie the ropes from other pulleys. This simple method is a big feature not generally found in other carriers.

- No. 4-A-669.** Wood track double swivel Hay Carrier complete with stop and fork pulley. Price.....\$2.95

- No. 4-A-670.** Steel track double swivel Hay Carrier complete with stop and fork pulley..... Price \$3.00



EVEN IF YOU PAY MORE, YOU CANNOT GET A BETTER ARTICLE  
OF THIS KIND.



## Hay Carrier Tools.

### DOUBLE SWIVEL SLING HAY CARRIER.



Made of the best malleable iron, heavy and durable, simple in construction. The special feature of this swivel carrier is that often when the barn is empty it is not

necessary to raise a load up to the track, for the load can be raised to any point desired, and tripped, thereby saving not only time but half the distance or more for the horses to travel.

Another excellent feature is that it draws the hay or grain direct as the load stands, with no twist in the rope.

No. 4-A-671. Wood track swivel sling carrier. Price, ..... \$5.85

No. 4-A-672. Steel track swivel sling carrier. Price, ..... \$5.90

### SELF-LOOKING SLING PULLEY.

No. 4-A-673. Can be used in connection with our Double Swivel Hay Carrier. The simplest and strongest sling pulley ever offered. It has no springs, and regardless of how large or how small the load of hay is in the wagon sling, it will lock at any place.

When the knob of the Sling Pulley enters the Hay Carrier, the entire weight of hay is on this knob and throws the lock against the rope between the two pulleys and when the load is dumped and Hay Carrier is returned and strikes the stop block, the knob drops the sling pulley, is unlocked and is ready for another load.

Price, ..... \$1.45

### SINGLE HARPOON HAY FORKS.



No. 4-A-674. Regulation size, made of best materials. Price, each, ..... \$1.35

### DOUBLE HARPOON HAY FORKS.



No. 4-A-675. Short tine, Double Harpoon Hay Fork, 25 inch tine, 16 inches between points. Made of best quality material. Price, each, ..... \$0.85

No. 4-A-676. Long tine, Double Harpoon Hay Fork, tines 30 inches long, 16 inches between points. Price, each, ..... \$0.95

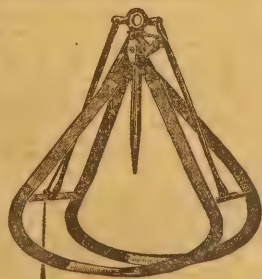
No. 4-A-677. Double Harpoon Hay Fork, 34 inch tines, 22 inches between points. Designed for handling alfalfa and straw. Can be used, however, for handling any kind of hay. Price, each, ..... \$1.80

### HAY GRAPPLE FORKS.

The best and strongest Grapple Forks manufactured.

No. 4-A-678. 4 tine Grapple Fork for regular work. Price, each, ..... \$3.30

No. 4-A-679. 6 tine Grapple Fork for short hay, loose straw. Price, each, ..... \$5.95



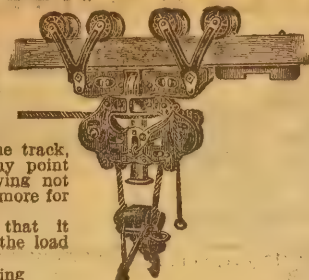
### GALVANIZED HAY CARRIER CABLE.



No. 4-A-684. 1/4 inch diameter, composed of 7 wires. Price, per foot, ..... \$0.02

No. 4-A-685. Clamps for cable Hay carriers. Price, each, ..... \$0.07

No. 4-A-686. Collars for Cable Hay carriers. Price, each, ..... .14



### STANDARD ADJUSTABLE WAGON SLINGS.

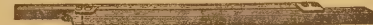


Made for an 18 foot wagon rack. They can be made shorter for any size wagon by drawing the ropes through the wood bars and tying another knot on each side of wood bars. There is a center trip on all slings and they are fitted with the best and simplest lock.

An outfit generally consists of one sling pulley and three wagon slings, so as to take off an entire load in three lots. The trip rope is of proper length, permitting the sling to be easily tripped. Sling pulleys or sling carriers must be used with wagon slings.

No. 4-A-680. Length, 4 foot. Price, each, ..... \$1.45  
No. 4-A-681. Length, 5 foot. Price, each, ..... 1.80  
No. 4-A-682. Length, 6 foot. Price, each, ..... 1.95

### DOUBLE ANGLE STEEL TRACK.



No. 4-A-683. Made only in five and ten foot lengths. Furnished complete with couplings and bolts. Two end bumpers are furnished with track when 30 feet or more are ordered. Price, per foot, ..... \$0.08 1/2

### ROPE HITCH WITH SWIVEL HOOK.



No. 4-A-687. Made of malleable iron. Will take rope up to 1 inch. Saves cutting or tying the rope. Price, each, ..... \$0.12

### STEEL TRACK HANGING HOOKS.



No. 4-A-688. For double steel angle track. Price, each, ..... \$0.06

### WOOD TRACK HANGING HOOKS.

No. 4-A-689. 14 inches along the bend. Price, each, ..... \$0.05

### FLOOR HOOKS.

No. 4-A-690. Used to screw to floor to hold pulleys. Diameter, 3/4 inch. Price, each, ..... \$0.06

### JOINED HANGING HOOKS.



No. 4-A-691. Used for hanging wood track to beams without using rafter brackets. Price, each, ..... \$0.03

### RAFTER BRACKETS.

No. 4-A-692. For Hay carrier track. Price, each, ..... \$0.02

### EYE BOLTS.

No. 4-A-693. For fastening Hay Carrier Cable to end of barn. Has long threads to take up slack. Price, each, ..... \$0.22

### SNATCH PULLEY BLOCK.

No. 4-A-694. To shorten travel of horse without reducing the power. Horse travels only half the distance hay is carried. Frame is made of malleable iron with iron sheave. For use with manila rope only. Price, each, ..... \$0.42



### IRON YOKE HAY FORK PULLEY.

No. 4-A-695. With loose hollow pin, hard maple sheave, 5 1/2 inch. Price, each, ..... \$0.16



### WOOD FRAME HAY FORK PULLEY.

(Self Oiling.)

No. 4-A-696. Frame and sheave are made of the best hard maple, fitted with wrought iron yoke, malleable iron eye and swivel springs—the most durable hay fork pulley manufactured. Price, each, ..... \$0.21

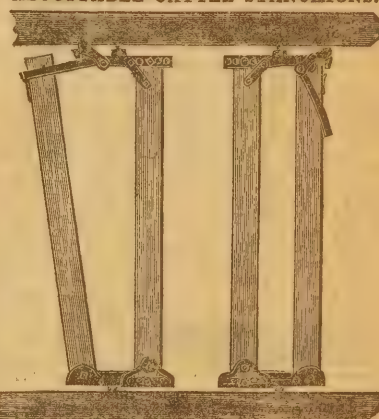


### STEEL YOKE KNOT PASSING PULLEY.

No. 4-A-697. With maple sheave, 5 1/2 inch diameter. Price, each, ..... \$0.18



### ADJUSTABLE CATTLE STANCHIONS.



The only stanchion on the market that allows the animal an easy and natural position at all times. Can be immediately adjusted, setting the upright bars 5 1/2, 6, 7 and 8 inch apart. Easily locked and only the attendant can open it and release the animal. This is done by merely lifting a steel lock that connects the pivoted bar.

The illustration on the right shows a Stanchion in place locked. The one at the left shows the Stanchion open, held firmly in position by steel guide straps. It is impossible for the animal to turn it and no trouble is experienced by the animal putting its head in the Stanchion.

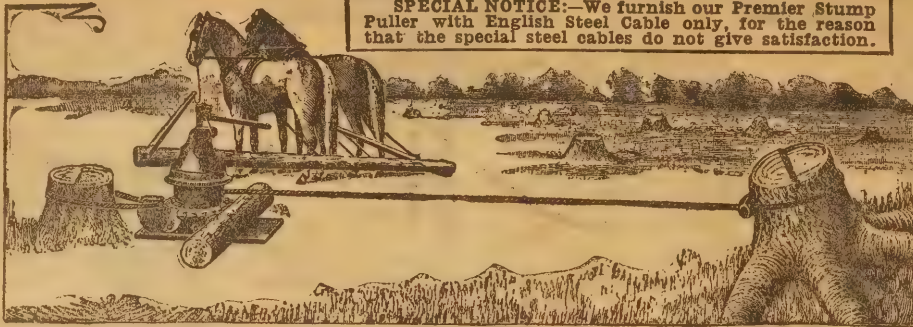
Made of best quality of hardwood, nicely finished. Height, 4 foot with 6 1/2 inch space between upright bars, and can be adjusted very easily by taking out a bolt which makes the spaces 5 1/2 inches, so that it can be used for young stock. The wider spaces are suitable for cattle of any size. The Stanchions are shipped set up for 6 1/2 inches between bars. Top and bottom are made of malleable iron and it is the strongest and lightest Stanchion on the market, weighing about 15 pounds each. Sold only in lots of 6 or more.

Shipped from factory Southern Wisconsin.  
No. 4-A-698. Price, for six, ..... \$5.75



# PREMIER STUMP PULLERS

The most powerful and efficient Stump Puller manufactured. A special drum is used which preserves the rope and increases the power and speed of the machine. Can be moved and set in five minutes time.



**SPECIAL NOTICE:**—We furnish our Premier Stump Puller with English Steel Cable only, for the reason that the special steel cables do not give satisfaction.

Will always hold all cable gathered on spool, whether machine is in gear or not. It can do as much work in one day as 15 men could do by hand. It will work on hill sides as well as on level ground and will always stand upright and swing in line with stump to be pulled.

The Premier Stump Puller is the very latest style of Groove Drum type of machine, carrying the very latest improvements both in construction and labor saving features. A mere glance at its construction will show the wonderful simplicity and superior design which together with the extremely high quality of all materials used in their making, prove them positively the best and most successful Stump Puller in the world and the lowest priced high grade machine sold today.

THE MAIN FRAME is constructed on new lines, giving it the rigid, strong and solid qualities lacking in other machines of this type. The heavy anchor hook provided here is meant to prevent the machine from tipping and there is positively no chance of its ever breaking.

THE DRUM is of large diameter and grooved so that the rope winds from bottom to top.

THE SAFETY RATCHET is made to hold every inch your team can pull. The rope used on this machine is the best ENGLISH STEEL ROPE made, and has done much to place this machine in popular favor.

THE SWEEP CAP is of the very latest design and made especially strong for this machine.

THE SWEEP LIFT is made of a steel angle bar working in an eccentric is a feature not contained in other machines.

Our ropes which are made of the best English Steel are fitted with properly fitting hooks and couplers that add to the life of the rope. While we list our machines with pulling rope 50 to 75 feet in length, we can furnish them in any desired length. When ordering extra rope you must allow extra price for same, as well as extra price for the fittings. We make no charge for placing the fittings on the rope.

OUR GUARANTEE:—We guarantee this machine for one year and will replace all defective parts during that time. We also guarantee the cable for the same length of time and will replace any cable that breaks providing it is not broken by misuse.

WE ALLOW TEN DAYS TRIAL:—This machine can be returned to us any time within ten days after it has been received, provided it is found not to be as represented or if it fails to do the work specified. In this event we will refund the amount paid for the machine and freight charges.

Our No. 6 Machine is suited for the very heaviest work and we would say in this regard that the larger the machine, the better it will perform the same work that a smaller machine will perform. With this advantage, it will do more work, doing it easier and assure greater economy in the cost of clearing land.

We advise prospective purchasers to buy a larger machine than the size his timber calls for to enable him to clear his land not only with the least cost, but he will make up more than the difference in the cost of the machine in the clearing of a few acres.

**DOUBLE POWER PULLEYS.** In specifying the strain in which our machines are guaranteed to stand, we desire to be plainly understood that capacity given is when a Double Power Pulley is used, prices quoted on the machines do not include Double Power Pulleys. These Pulleys are not only meant for increasing the power of the machine but for making the work easier. In fact, this is the principle function of the Pulley.

The Sweep and Platform are not included in following prices (as you can make these at practically no expense.)

No. 4-A-629. No. 1 Machine is suited for trees and stumps up to 6 inches through. For use by hand or for one horse on an 8 foot sweep. Furnished with a six foot anchor loop and 50 feet of  $\frac{1}{2}$  inch English Steel Pulling Cable. Guaranteed to stand a strain of 45,000 pounds when a double power pulley is used. Weight, 300 lbs. Price.....\$17.25

No. 4-A-630. No. 2 Machine is suited for trees and stumps up to 12 inches through. For use with one horse on a 10 foot sweep. Furnished with an 8 foot anchor loop and 50 feet of  $\frac{1}{2}$  inch English Steel Pulling Cable. Guaranteed to stand a strain of 70,000 lbs. where a double power pulley is used. Weight, 400 lbs. Price.....\$24.50

No. 4-A-631. No. 3 Machine is suited for trees and stumps up to 18 inches through. For use with two horses on a 12 foot sweep. Furnished with a 10 foot anchor loop and 50 feet of  $\frac{1}{2}$  inch highest grade English Steel Pulling Cable. Guaranteed to stand a strain of 100,000 pounds when a double power pulley is used. Weight, 600 lbs. Price.....\$34.50

No. 4-A-632. No. 4 Machine is suited for trees and stumps up to 24 inches through. For use with two horses on a 14 foot sweep. Furnished with a 12 foot anchor loop and 75 feet of  $\frac{1}{2}$  inch highest grade English Steel Pulling Cable. Guaranteed to stand a strain of 140,000 pounds when a double power pulley is used. Weight, 900 lbs. Price.....\$49.75

No. 4-A-633. No. 5 Machine is suited for trees and stumps up to 36 inches through. For use with two horses on a 16 foot sweep. Furnished with a 12 foot anchor loop and 75 feet of 1 inch highest grade English Steel Pulling Cable. Guaranteed to stand a strain of 180,000 pounds when a double power pulley is used. Weight, 1,000 lbs. Price.....\$62.50

No. 4-A-634. No. 6 Machine is suited for the very heaviest work. For use with two horses on an 18 foot sweep. If used with our No. 3 Double Power Pulley, double the power can be obtained. We recommend this particular machine to our customers who have a great amount of work to do even though their timber is of medium size, as the great power of the machine makes it possible to pull medium sized timber without the use of a Double Power Pulley. Is furnished complete with 12 foot anchor loop and 75 feet of 1-inch pull rope. Shipping weight, about 1,000 lbs. Price.....\$79.75

## ENGLISH STEEL STUMP PULLER CABLE.

For Stump Pulling purposes we recommend and guarantee only English Steel Cable. The pulling capacity of this cable is much greater than any other cable manufactured, and it has been found by much experience that it is the only cable to be used for this purpose. Our Stump Pulling machines are fitted exclusively with this kind of cable. When ordering cable, be sure and specify the same size as supplied with the machine. When ordering extra cable, always order one hook for each extra cable and two clips for each cable  $\frac{1}{2}$  inch or smaller in diameter, and three clips for cable 1 inch in diameter.

No. 4-A-635. English Steel Cable. Diameter, inches.....\$0.20 \$0.27 \$0.32 \$0.45 \$0.52

Price, per foot.....\$0.20 \$0.27 \$0.32 \$0.45 \$0.52

**WIRE ROPE HOOKS.**

No. 4-A-636. Size.....\$1.25 \$1.60 \$1.90

Price, each.....\$1.25 \$1.60 \$1.90

Size.....1 1 $\frac{1}{2}$

Price, each.....\$2.25 \$2.85

**WIRE ROPE CLIPS.**

No. 4-A-637. Size.....\$0.12 \$0.14 \$0.16

Price, each.....\$0.12 \$0.14 \$0.16

Size.....1 1 $\frac{1}{2}$

Price, each.....\$0.19 \$0.21

## DOUBLE POWER PULLEYS.



These pulleys decrease the strain on the rope and increase the power of the machine. They can also be used for trees away from the machine. The block is hitched to the tree or stump to be pulled; a hitch rope being provided for that purpose. A pull rope is run through the sheave back to the machine, which it can be made fast to the frame or the platform.

This pulley is made with solid steel clevises and pins and chilled centered sheave and is recommended for use wherever the work is more than one foot through.

The pulley is made in three sizes.

No. 4-A-638. Size No. 1, to be used with Nos. 1 and 2 Stump Pullers, complete with 10 feet  $\frac{1}{2}$  inch hitch rope. Weight, 50 lbs. Price.....\$5.25

No. 4-A-639. Size No. 2, to be used with Nos. 3 and 4 Stump Pullers, complete with 12 feet 1 inch hitch rope. Weight, 60 lbs. Price.....\$6.00

No. 4-A-640. Size No. 3, to be used with Nos. 5 and 6 Stump Pullers, complete with 15 feet 1 $\frac{1}{2}$  inch hitch rope. Weight, 70 lbs. Price.....\$6.75

## TAKE UPS FOR SLACK ROPE.

We advise the use of a Take Up when cable is over 50 feet long or when pulling stumps on short hitch, as you should not wind more than one layer of cable on drum while working. The Take Up practically doubles the amount of work you can do and makes it possible to pull a greater number of stumps at one sitting.



No. 4-A-641. Size No. 1, suitable for Nos. 1, 2 and 3 Stump Pullers. Price.....\$3.00

No. 4-A-642. Size No. 2, suitable for Nos. 4 and 5 Stump Pullers. Price.....4.00

No. 4-A-643. Size No. 3, suitable for No. 6 Stump Puller. Price.....5.00

## STEEL STUMP ROOT HOOKS.

These hooks are made of cast steel to pull low stumps that have rotted down to the ground, or other work of similar nature, to which a pull rope of the Stump Puller cannot be attached.

No. 4-A-644. Size No. 1. Weight, 25 lbs. Price.....\$2.35

No. 4-A-645. Size No. 2. Weight, 40 lbs. Price.....3.75

No. 4-A-646. Size No. 3. Weight, 70 lbs. Price.....6.00



# BLACKSMITH'S PORTABLE FORGES

CYCLONE PORTABLE FORGE, **\$4.25**



Notwithstanding the extremely low price which we put on this forge, it is very strong and durable. These qualities have not been sacrificed on account of the price. It is neat and symmetrical in design and the legs are made of  $\frac{1}{2}$  inch pipe, firmly screwed into the hearth, and are tied together with wrought iron bands to insure rigidity when in action. The leg construction is the best on the market. The lever operates a segment gear on a ratchet which permits the reverse motion while the drive wheel on the same shaft revolves rapidly.

A leather belt connects the drive wheel, with the blower fan. The result is a strong, lasting blast, produced with very little energy. Will fully meet the demands of farmers and are suitable for all kinds of light repair work.

#### Dimensions:

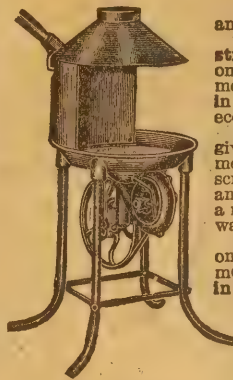
Height of forge, 30 inches.  
Diameter of hearth, 18 inches.  
Depth of fire pan,  $2\frac{1}{2}$  inch.  
Diameter of fan case, 8 inches.  
Weight about 85 pounds.

No. 4-A-448. Price with shield as shown in illustration. **\$4.25**

No. 4-A-449. This forge is the same in all respects as the one described above, excepting that it is provided with a  $\frac{1}{2}$  inch hood for smoke pipe connection instead of a shield for outdoor work, as shown in illustration. Weight about 90 lbs.

Price **\$5.00**

POSITIVE BLAST FORGE, **\$8.25**



Light running, positive and economical.

The design and construction of this forge is on mechanical and symmetrical lines, resulting in a strong, light running, economical tool.

The legs are of pipe, giving strength and symmetry. They are firmly screwed into the hearth, and are tied together in a manner to prevent their wobbling.

The lever, supported on a swivel, follows the motion of the arm while in use.

The Clutch is of a special design that insures positive action. The boxes are provided with oil cups and the shafts are correctly

rectly fitted into the bearings, and if these parts are properly lubricated, they will last a life time. The oil cups are dust proof and self closing.

The shaft that attains speed (the fan shaft), is provided with ball bearings which lighten the draft and save wear. The fire place is separate from the hearth, which saves breakage, expansion and shrinkage of these parts.

We recommend this forge for repair men, quarry men, boiler makers, bridge builders, in mines, on farms and other places where light and medium smithing is done.

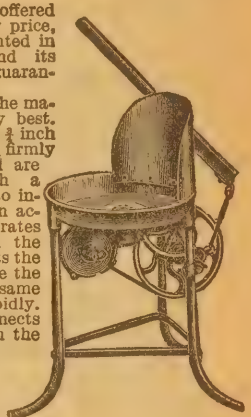
#### Dimensions:

Height of forge, 30 inches.  
Diameter of hearth, 22 inches.  
Size of fan, 9 inches.  
Weight about 135 pounds.

No. 4-A-451. Price complete with hood as shown in illustration. **\$8.25**

No. 4-A-452. Price with shield. **7.25**

TORNADO UTILITY FORGE, **\$5.00**



While this forge is offered at an extremely low price, it has not been slighted in its construction and its durability is fully guaranteed.

Construction: The material is of the very best. The legs are made of  $\frac{1}{2}$  inch pipe which screw firmly into the hearth and are tied together with a wrought iron band to insure rigidity when in action. The lever operates a segment gear on the ratchet which permits the reverse motion, while the drive wheel on the same shaft revolves rapidly. A leather belt connects the drive wheel with the blower fan.

Particular attention is called to the size of the hearth, which is 22 inches diameter and  $3\frac{1}{2}$  inches deep.

This is an extremely popular forge, owing to the unusual size of the hearth. We recommend this forge for all kinds of light repair work.

#### Dimensions:

Height of forge, 30 in.; Dia. of hearth, 22 in.; Depth of fire pan,  $3\frac{1}{2}$  in.; Dia. of fan case, 8 in.; Weight about 95 lbs.

No. 4-A-450. Price **\$5.00**

PERFECTION FORGE, **\$11.50**



We wish to call your particular attention to the construction of this forge. Note how the legs are braced, which is absolutely necessary in the construction of a forge of this size.

We wish further to call your attention to the size of the fan, which will produce a greater volume of air, and make it possible to bring the work to a proper heat in less time than you can with other forges

of similar construction.

In offering this forge at the price we do, we have kept in mind the necessity of strength, size of fan, and all other good points that are necessary to produce a forge that will meet with the requirements of horseshoers, bridge builders, boiler makers and for general smithing.

This forge is large and roomy and has a strong blast. The clutch is of special design and is positive in action, and economical in point of service and wear. The legs are of wrought iron, held in sockets which are bolted to the hearth. The legs are braced by heavy iron rods running diagonally from front to rear. These rods are held rigid at the point where they cross by clamp.

The lever support is a swivel, which permits the lever to follow the action of the arm while in use.

The boxes are provided with oil cups and the shafts are carefully fitted into bearings. If these parts are properly lubricated they will last a life time. The oil cups are dust proof and self-closing.

The shaft that attains the speed (the fan shaft) is provided with ball bearings, which lightens the draft and saves wear.

The fire place is separate from the hearth which saves breakage and expansion and shrinkage of these parts.

These forges are suitable for almost any kind of smithing.

#### Dimensions:

Height of forge, 30 in.; Size of hearth,  $24 \times 35\frac{1}{2}$  in. Dia. of fan, 12 in.; Weight about 210 lbs.

No. 4-A-454. Price with hood as shown in illustration **\$11.50**

No. 4-A-455. Price with shield. **10.75**

## "Premier" Blacksmith's Forge,

The King of Lever Forges, Dust Proof, Self-Closing Oil Cups, Ball-Bearing Fan Shaft



**\$16.50**

This is the King of all lever forges, and is of new design. Instead of having a small coal box built in the end of hood, the bottom is made straight and the sides are of increased height, which provides ample room for a good supply of coal. The bottom being straight, the coal is easily drawn into the fire by means of a rake or shovel. There is also ample room for tools and material.

The lever support is a swivel which permits the lever to follow the action of the arms while in use.

The good features of this forge are the boxes that are provided with dust proof, self-closing oil cups; the ball bearing, high speed fan shaft which lightens the draft and saves wear; a fire place which is separate from hearth, thus avoiding bad results due to expansion and shrinkage of these parts.

The design of this forge is symmetrical throughout and is also practical. It is very substantial, and is adapted to all kinds of smithing from heating iron 3 inches diameter to a welding heat.

#### Dimensions:

Height of forge, 30 inches.  
Size of hearth,  $29\frac{1}{2} \times 46\frac{1}{2}$  inches.  
Diameter of fan, 15 inches.  
Weight 330 pounds.

No. 4-A-456. Price with hood as shown in illustration **\$16.50**

No. 4-A-457. Price with water tank, weight about 375 lbs. **\$18.50**



**BLACKSMITH'S  
FAVORITE FORGE \$18.00**

This forge is designed for the heaviest blacksmiths' and carriage builders' work. The hearth is deep. The sides are lowered almost to a level with the tuyere for long shafts or forgings, working with a small fire. They will produce a steady, powerful blast.

This style of forge is much superior to the bricked in forge, has a geared hand blower. The blast is strong and is blown direct into the tuyere. There are no belts, ratchets or noisy clutches.

We guarantee this forge to produce a hotter fire in less time than any other forge of similar type on the market. The fan (in the fan case) is large, being 12 inches in diameter. Both the blower and fan being specially designed, make this the best geared hand blower forge on the market. All material and workmanship are of the very best.



This forge is built without coal box, giving the operator the full size of the hearth for his tools and material. Furnished fitted with a water tank (as shown in illustration), which can be used as a coal box if desired.

**Dimensions:**

Height, 30 in.; Size of hearth, 31x53 in.; Diameter of fan, 12 in.; Weight about 260 lbs.

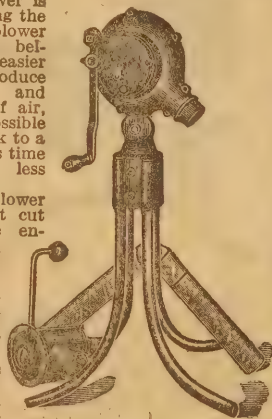
No. 4-A-459. Price with water tank as shown. **\$18.00**

**"CYCLONE"  
BLOWER****\$10.90**

The crank blower is rapidly superseding the old style lever blower and blacksmiths' bellows. They are easier to operate and produce a more steady and greater volume of air, thus making it possible to bring your work to a proper heat in less time and with much less labor.

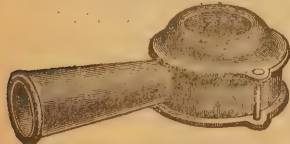
Our Cyclone Blower is made with flat cut gears which are encased in an oil tight and dust proof gear case. The gears run in a continuous bath of oil. The crank turns forward or backward.

This blower gives a good blast and meets the general demand of blacksmiths who prefer to build their own forge.

**Dimensions:**

Height, 45 in.; Dia. of fan case, 12 in.; Dia. of fan, 9 1/2 in.; Weight crated about 115 lbs.

No. 4-A-460. Price complete with piping and improved anti-clinker tuyere. **\$10.90**

**DUCK NEST  
TUYERE  
IRON.**

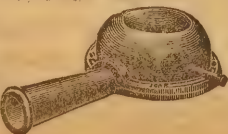
No. 4-A-464. Made of best quality gray iron. Weight 12 lbs. Price **\$0.37**

**CLARK TUYERE IRON.**

Made of best quality of gray iron, with dump and shaker.

No. 4-A-465. Medium size, weight 22 1/2 lbs. Price **\$0.78**

No. 4-A-466. Large size, weight 27 lbs. Price **\$0.97**

**CONTRACTOR'S  
STEEL FORGE \$13.50**

This forge is especially designed for contractors, boiler makers, bridge builders and for any and every purpose where a portable forge is required for outdoor work. Being entirely of steel, they are stronger and lighter than the cast iron forge and are more nearly indestructible. They can readily be taken apart and set up.

With the improved type of fan they will produce a very powerful blast. We wish to

call your particular attention to the diameter of the fan, which is 12 inches, being larger than is generally used and will therefore produce a proper heat in much less time.

**Dimensions:**

Height, 32 inches.  
Diameter of hearth, 18 inches.  
Diameter of fan, 12 inches.  
Weight about 100 pounds.

No. 4-A-458. Price. **\$13.50**

**"WHIRLWIND"  
BLAST FORGE****\$12.00**

No. 4-A-453. Made of steel, and is very much the best lever Hand Blower on the market. The fan is extra large and will furnish a greater blast than any other blower of similar type, thereby bringing your work to a welding heat in a less time. It runs noiseless, all shafts are of steel, with long, heavy, journals.

**Dimensions:**

Height 44 inches.  
Diameter of fan, 17 inches.  
Weight, 140 lbs.

Price, complete with tuyere and pipe. **\$12.00**

**NORTON'S ADJUSTABLE BLAST TUYERE  
IRON.**

No. 4-A-467. Regulated by turning the large rod. The cinders and ashes may be removed by drawing out the small rod which opens the slide.



The levers and spring are readily changed to either side for right or left hand use. Weight about 27 pounds.

Price **\$0.96**

**Ball Bearing Spiral  
Geared Blower \$14.95**

The cut spur and spiral gears are made of the finest hardened phosphorus bronze and Swiss steel as are also the ball bearings. They are carefully ground and polished to a most perfect finish, thus insuring noiseless and smooth running.

Note the construction of these gears is such that eight full teeth of the spiral gear continuously mesh into eight full teeth of the spur, so that strength,

durability and highest speed is assured. The perfect ball bearings and oiling arrangements absolutely prevent wear and friction.

We guarantee that this blower will produce a more powerful blast than any other hand blower on the market, and is equally strong when the handle is turned in either direction. We guarantee a white heat blast nearly equal to the best power blast.

The height of crank is adjustable from 41 to 45 inches. Is equipped with center and side blast. Deep fire tuyere blower. Size 11x9x4 inches. Has 13 inch fan case.

Shipping weight 135 pounds.

No. 4-A-461. Price complete with tuyere as shown. **\$14.95**

**BELLOWS.****\$3.65**

We guarantee that the leather used in the construction of our bellows is the best cowhide employed for this purpose, and that it is properly pooped to the wood, preventing the nails from pulling through. The wood is kiln dried which prevents cracking. Guaranteed fully in every respect.

**STANDARD PATTERN.****No. 4-A-462.**

Width Inches	Wt. lbs.	Price	Width Inches	Wt. lbs.	Price
24	30	\$3.65	34	60	\$ 6.00
26	35	4.19	36	68	6.80
28	40	4.56	38	78	7.55
30	45	4.93	40	100	8.70
32	50	5.30	42	125	11.25

**EXTRA LONG PATTERN.****No. 4-A-463.**

Width Inches	Wt. lbs.	Price	Width Inches	Wt. lbs.	Price
34	73	\$6.95	38	105	\$8.90
36	87	7.85	40	125	9.95

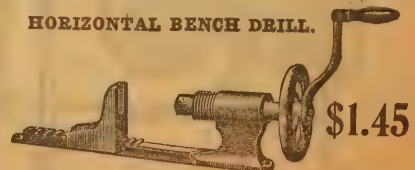
**WARREN'S PATENT TUYERE IRON.****No. 4-A-468.**

Very simple and easily adjusted.

Blast is regulated by simply revolving the ball, which has three unequal sides.

Open the bottom valve and all cinders and ashes drop out. Weight about 31 pounds.

Price **\$1.46**

**HORIZONTAL BENCH DRILL.****\$1.45**

For Blacksmith and Farm use; a good durable tool. Drill spindle bored for 1/2 in. round shank drills. Weight 29 lbs.

No. 4-A-1750, price. **\$1.45**



# Blacksmiths' Post-Drills

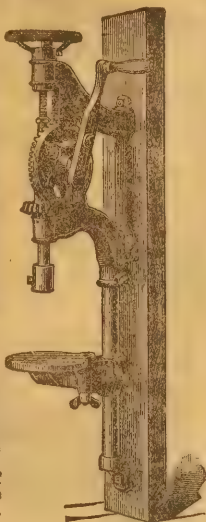
## BLACKSMITHS' SINGLE GEARED HAND FEED POST DRILL

**A Substantial Drill—**  
Rigid, powerful and durable. Simple in construction. We guarantee this drill will do equally as good work as any of the higher priced drills, and is an indestructible tool. For use on farms and in small shops.

Height 36 ins. Upright column 1½ ins. diameter. Gear wheel 6½ ins. diameter. Table 6 ins. diameter. The greatest distance of spindle to table 10½ ins. Drills ½ in. holes to center of a 12 in. circle.

The drill spindle is 1 in. steel and bored for ½ in. round shank drills. Feed has a run of 3 ins. Upright column and feed screw are of special steel. Crank is adjustable to long or short turn. The drill table can be raised, lowered or swung out of the way so fork can be used to hold wheels. Weight about 60 lbs.

No. 4-A-28. Price \$3.50



## DOUBLE GEARED SELF FEED POST DRILL

Has an extension crank and adjustable feed. Drills ½ in. to center of 12 in. circle. Drill spindle is 1 in. steel and is bored for ½ in. round shank drills. Feed has a run of 3 ins. Total height is 37 inches. Diameter upright column 1½ ins. Diameter drive gear wheel 8 ins. Diameter of table 6 ins. Greatest distance of spindle to table 10½ ins. Fly wheel diameter 14½ ins. The upright column and feed screw are of special steel.

We claim that this is the best drill value ever offered and will meet the requirements for general shop and blacksmith work. Weight 80 lbs.

No. 4-A-29. Price .....\$5.25



## "PREMIER" BALL BEARING GEARED SELF FEED BLACKSMITHS' POST DRILL

These drills are specially designed and are heavier in construction than any other similar type of drill that is offered. They have no light or intricate parts which are liable to break or get out of order.

All bearings are ground out of solid metal to a working fit, just like the bearings of high priced drills. The automatic feeding device is new and simple, yet efficient and positive. It is located back in the spindle and is worked by a cam on the inside of the main gear wheel. This cam is constructed so as to give nearly a continuous feed. By this arrangement the drill does not jam into the work, which is frequently the case in the use of hand drills.

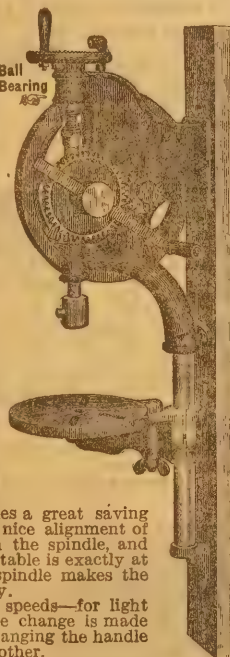
This point alone makes a great saving in drill bits—also the nice alignment of the lower column with the spindle, and the fact that the drill table is exactly at right angles with the spindle makes the drill turn free and easy.

The drills have two speeds—for light and heavy work. The change is made instantly by simply changing the handle from one shaft to the other.

The ball bearings are made of case hardened special steel and are absolutely true. They are fitted in the head piece of spindle and serve to reduce the friction and increase the efficiency and life of the machine.

Dimensions: Total height 45 ins. Diameter of table 8 ins. Diameter drive gear wheel 6 ins. Fly wheel 14 ins. Spindle 1 in. Run of spindle 3 ins. Size of column 1 9-16 ins. Greatest distance of spindle to table 14½ ins. Spindle turns 1½ times on one turn of crank on fast speed. Crank turns 1½ times to one turn of spindle on slow speed. Drills up to 1½ in. holes to center of 15 in. circle. Spindle is bored for ½ in. round shank drills. Weight 125 lbs.

No. 4-A-33. Price .....\$7.00



## "ADVANCE" VARIABLE SELF FEED BLACKSMITHS' POST DRILL



For belt and hand power with tight and loose pulleys and fly wheel.

This drill is especially adapted for heavy work. It drills 1½ in. holes to center of 18 in. circle and is used in blacksmith shops, by boiler makers and bridge builders.

It is equipped with special automatic feeding device which is located back of spindle and is worked by a cam on the inside of main gear wheel. This cam is constructed so as to give nearly a continuous feed. They are made for heavy service, and the simplicity and small number of parts recommend it.

Dimensions: Drill is 50 ins. high. Table 11 ins. diameter. Diameter of gear wheel 8 ins. Diameter of fly wheel 16 ins. Diameter of spindle 1½ ins. Run of spindle 3 ins. Size of column 2 ins. Greatest distance of spindle to table 16½ ins. Spindle turns 1½ times to one turn of crank on fast speed. Crank turns 1½ times to one turn of spindle on slow speed. Drills up to 1½ in. holes to center of 18 in. circle. Spindle is bored for ½ in. round shank drills. Weight 190 lbs.

No. 4-A-34. Price .....\$15.00

## "PERFECTION" SELF FEED BLACKSMITHS' POST DRILL

This drill is especially constructed to meet the requirements in shops where heavy work is performed.

This drill will do more work than any hand power post drill of a similar type on the market. All bearings are ground out of solid metal to a working fit, the same as bearings on higher priced drills.

It is fitted with improved automatic feeding device which is located back in the spindle and worked by a cam, which is constructed so as to give nearly a continuous feed. This arrangement makes it impossible for the drill to jam into the work.

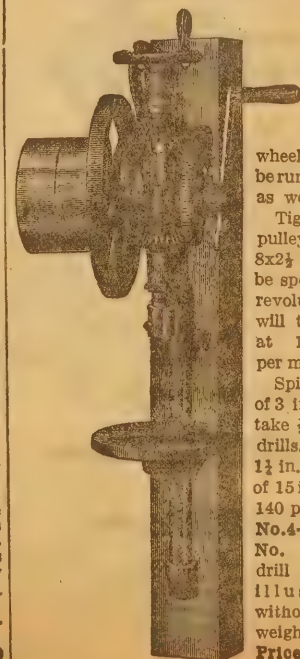
The lower column is properly aligned with the spindle and the drill table is at right angles with the spindle, which makes the drill turn free and easy. This feature is a great saver of drill bits.

The drills have two speeds. One for light work and the other for heavy. The change can be made instantly by merely changing the handle from one shaft to the other. The table can be raised or lowered, turned to side or removed if desired, and the fork used as a wheel holder.

Dimensions: Diameter of spindle 1 9-16 ins. Greatest distance of spindle to table 14½ ins. Run of spindle 3 ins. Spindle bored for ½ in. round shank drills. Drills 1½ in. holes to center of 15 in. circle. Weight 125 lbs.

No. 4-A-30. Price .....\$6.35

## "PERFECTION" BLACKSMITHS' COMBINED POWER AND HAND DRILL



This makes a first-class equipment for shops that are equipped with power, this drill being fitted with fly

wheel, and crank can be run by hand equally as well as by power.

Tight and loose pulleys measure 8x2½ ins. and should be speeded about 250 revolutions, which will turn the spindle at 170 revolutions per minute.

Spindle has a run of 3 ins. and bored to take ½ in. round shank drills. Drills up to 1½ in. holes to center of 15 in. circle. Weight 140 pounds.

No. 4-A-31 Price \$9.00

No. 4-A-32. Same drill as shown in illustration but without fly wheel, weight about 125 lbs. Price .....\$8.25



## POST DRILL CHUCKS.



These chucks are made of  $\frac{1}{2}$  inch straight shank and will fit any of our post drills. Straight shank drills are to be used in connection with these chucks.

No. 4-A-120. Holds drill  $\frac{1}{4}$  in. and smaller ..\$1.55  
No. 4-A-121. Holds drill  $\frac{1}{2}$  in. .... 2.10

## STRAIGHT SHANK DRILLS.



No. 4-A-119. These drills are made of the very finest quality of tool steel, each drill guaranteed. To be used in connection with drill chuck. Made for round shank drills. The twist and shank are of the same size.

Size Inch.....	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 1/8
Length Inch.....	2 1/2	2 1/2	3	3 1/2	3 1/2	3 1/2	4	4 1/2	4 1/2
Price each.....	\$ .03	.04	.04	.06	.07	.08	.09	.11	.12
Price per doz.....	.30	.37	.41	.55	.67	.80	.95	1.12	1.28

Size inch.....	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 1/8
Length inch.....	4 1/2	4 1/2	5	5 1/2	5 1/2	5 1/2	6	6 1/2	6 1/2
Price each.....	\$ .12	.14	.16	.17	.20	.22	.23	.25	.28
Price per doz.....	1.28	1.45	1.66	1.86	2.08	2.24	2.45	2.65	2.95

## 1-2 INCH ROUND SHANK DRILLS.



No. 4-A-118. Will fit any of our Blacksmith Post Drills.

They are made of the very best grade of steel and carefully tempered. Will drill more holes than any other drill of its kind on the market.

Every one is absolutely true to gauge and fully guaranteed in every particular.

Size inch.....	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 1/8
Price each.....	\$0.13	.15	.18	.21	.24	.26	.27	.29	.32
Size inch.....	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 1/8
Price each.....	\$0.34	.37	.38	.43	.46	.51	.57	.61	.67

## MACHINE COUNTER SINKS.



No. 4-A-122.  $\frac{1}{2}$  inch round shank. Will fit any of our post drills.

Size $\frac{1}{2}$ in. Price.....	\$0.30
Size $\frac{1}{4}$ in. Price.....	.44

## PEACE'S IMPROVED SPOKE TENONING MACHINE.

With Adjustable Hollow Auger.



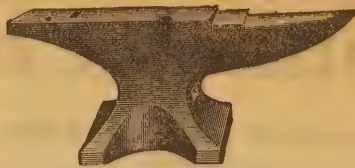
No. 4-A-251. This machine has been in use for years with general satisfaction. Its low cost compared with other tenoning machines brings it within the use of all; in fact, no other machine used by woodworkers gives more value for the money. Every machine is warranted to give satisfaction. The auger head is heavy and the knife starts on the plain end of spoke and centers perfectly. The auger is kept going by the force of the spring. It is adapted to any size spoke or dish of wheel and is readily applied without removing the wheel from where the spokes are driven. It may be clamped on spoke in an instant's time. Cuts every tenon perfectly true. Price without fellow boring attachment.....\$8.25  
Price with fellow boring attachment..... 8.85

## HORSE SHOE NAILS.



No. 4-A-98. These nails are forged hot from end of rod. Every nail is uniform and perfect. They drive better, clinch better and hold shoes on longer than any other nail on the market. No acid used in polishing. Come in boxes of 25 lbs.  
Size No. .... 5 6 7 8 9 10 11 12  
Price, per box.....\$2.15

## "PREMIER" WROUGHT IRON ANVILS.



Superior in quality, form and finish to any on the market. Every anvil sold by us is fully guaranteed. They are intended for hard service.

Made of the very best grade of American wrought iron faced with crucible cast steel. Top and bottom are each of one solid piece, and welded at the waist by improved method. The steel faces are one solid piece. The face is planed after the anvil is finished, and is therefore smooth. Has wood base, long horn and heel.

We guarantee that should these anvils break at waist, or the steel face become loose within one year from date of purchase it will be replaced without charge.

No. 4-A-115.	Price per lb.
Weight, 150 to 200 lbs.....	8c
Weight, 120 to 145 lbs.....	9c
Weight, 80 to 119 lbs.....	9 1/2c
Weight, 70 to 79 lbs.....	10c
Weight, 60 to 69 lbs.....	11c
Weight, 50 to 59 lbs.....	12 1/2c

## "PERFECTION" STEEL FACED CAST ANVILS.

No. 4-A-117. The face of this anvil is one solid piece of tool steel thoroughly welded to the body of the anvil by a patented process. It is then accurately ground and tempered.

The horn is covered with steel, and its extremity is made entirely of tough, untempered steel. The body of the anvil is made from superior pig iron. The face and the horn are warranted to be welded thoroughly to the body and not to separate.

They are designed to give first class service, but will not stand the hard wear as will a wrought iron anvil.

Weight lbs.	Price	Weight lbs.	Price
20.....	\$2.55	70.....	\$4.95
30.....	2.85	80.....	5.50
40.....	3.40	100.....	6.60
50.....	3.90	120.....	7.80
60.....	4.40		

## PERFECTION GEARED TIRE BENDER.

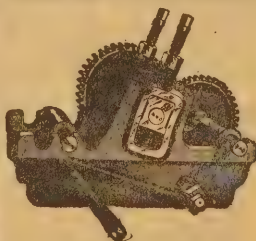
All journals in these machines are provided with steel roller bearings, which makes them very easy running. The rolls are provided with steel roller bearings, perfectly round and true, which insures good work.

No. 4-A-105. Size No. 2. Will bend  $3\frac{1}{2}$  in. tire or smaller to a circle, or 24 inches in diameter or larger. Price, with crank.....\$4.50

No. 4-A-106. Size, No. 2 1/2. Will bend  $4\frac{1}{2}$  in. tire, or smaller, to a circle 24 inches in diameter or larger. Price, with crank.....\$4.98

No. 4-A-107. Size, No. 3. Will bend 6 in. tires or smaller to circle 24 inches in diameter or larger. Price with crank.....\$6.25

## PREMIER DOUBLE GEARED TIRE BENDER.



This machine is made with turned rollers and bearings and is a first-class tool in every particular; can be easily adjusted for tires of different thickness.

No. 4-A-110. Will bend 5 inch tire, or smaller, to circle of 24 inches in diameter or larger. Price.....\$6.75

IF YOU CONTEMPLATE BUILDING A HOME SEND FOR OUR FREE PLAN OFFER AND BUILDING PLAN BOOK.

## ADJUSTABLE SPOKE POINTERS.

No. 4-A-111. Made with a graduated square adjustable shank. The cutter is of high grade tool steel. Points up to  $1\frac{1}{4}$  inches in diameter. Price each.....\$0.34

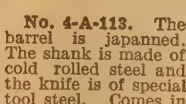


## PERFECTION ADJUSTABLE HOLLOW AUGER.



No. 4-A-112. Cuts any size tenon from  $\frac{1}{2}$  to  $1\frac{1}{2}$  inch. Fitted with pivoted jaws with graduated scale by which the size of tenon is regulated. A movable stop is operated on graduated scale with rulings to  $\frac{1}{16}$  inch. Price.....\$1.70

## IMPROVED ADJUSTABLE HOLLOW AUGERS.

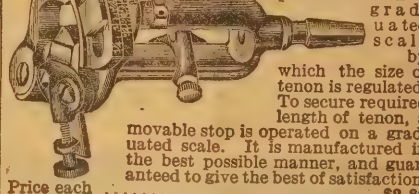


No. 4-A-113. The barrel is janned. The shank is made of cold rolled steel and the knife is of special tool steel. Comes in eight sizes from  $\frac{1}{2}$  to 1 inch. Price.....\$0.45



## WOOD PATTERN HOLLOW AUGER.

No. 4-A-114. This is a high grade mechanic's tool. Comes in size tenon from  $\frac{1}{2}$  to  $1\frac{1}{2}$  in. The pivoted jaws are provided with a graduated scale by which the size of tenon is regulated. To secure required length of tenon, a movable stop is operated on a graduated scale. It is manufactured in the best possible manner, and guaranteed to give the best of satisfaction. Price each.....\$2.30



## IMPROVED MOLE TIRE SHRINKER.

These machines are made of the very best material and are guaranteed fully in every particular. They are easily operated by one man. It is not necessary to remove tire until it is upset as required. Each machine is furnished with an iron lever handle. (Without anti-kinking device.)



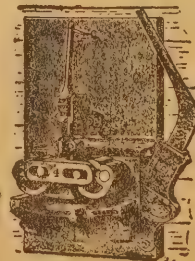
No. 4-A-97. Size, No. 1. Capacity, up to 2 1/2 in. tires. Price, each.....\$4.90  
No. 4-A-98. Size, No. 2. Capacity up to 3 in. tires. Price each.....\$7.80  
No. 4-A-99. Size, No. 3. Capacity, up to 4 in. tires. Price each.....\$9.95

## IMPROVED MOLE TIRE SHRINKER. (With anti-kinking device).

No. 4-A-100. Size, No. 2. Capacity, up to 3 in. tires. Price each.....\$8.70  
No. 4-A-101. Size, No. 3. Capacity, up to 4 in. tires. Price each.....\$10.80

## STODDARD TIRE SHRINKER.

The Stoddard Tire Shrinker has been on the market for many years and it is superior to all others. The dogs which grip the tire are faced with tool steel plates. These hold the tire perfectly without slipping, wear a long time and can be re-sharpened by the user and finally replaced at a small expense. They are held to the eccentric dogs by means of screws. No. 4-A-102. Size No. 1. Shrinks up to 2 in. tires. Weight, 100 lbs. Price, each.....\$5.65  
No. 4-A-103. Size No. 2. Shrinks up to 4 in. tires. Weight, 230 lbs. Price each.....\$9.00  
No. 4-A-104. Size, No. 3. Shrinks up to 4 in. tires and has extra jaws of setting axles up to  $1\frac{1}{2}$  in. Weight about 300 lbs. Price each.....\$11.20





# Blacksmith Tools.

Made of the very best quality of crucible steel properly tempered. Each tool guaranteed to be first class and satisfactory in every respect.

## RADIES.

No. 4-A-1025.



Size of Shank	Weight Lbs.	Price Each
1	1	\$0.07
1	1	.10
1	1	.13
1	1	.15
1	1	.18

## TOP FULLERS.

No. 4-A-1026. Without Handles

Size Inches	Weight Lbs.	Price Each
1	2	\$0.26
1	2	.30
1	2	.31
1	2	.32
1	2	.37
1	3	.40
1	3	.41
1	3	.42
1	3	.45



## BOTTOM FULLERS.

No. 4-A-1027.

Size Inches	Weight Lbs.	Price Each
1	2	\$0.26
1	2	.30
1	2	.31
1	2	.32
1	2	.35
1	3	.39
1	3	.41
1	3	.42
1	3	.45



## SQUARE FLATERS.

Without Handles

No. 4-A-1028.

Size Inches	Weight Lbs.	Price Each
2	2	\$0.29
2	2	.33
2	2	.45
2	2	.50
3	5	.60



## TOP SWAGES.

No. 4-A-1029.

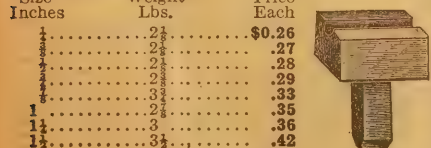
Size Inches	Weight Lbs.	Price Each
1	1	\$0.23
1	2	.26
1	2	.27
1	2	.27
1	3	.32
1	3	.33
1	3	.34
1	3	.35
1	4	.35
1	4	.44



## BOTTOM SWAGES.

No. 4-A-1030.

Size Inches	Weight Lbs.	Price Each
1	2	\$0.26
1	2	.27
1	2	.28
1	2	.29
1	3	.33
1	3	.35
1	3	.36
1	3	.42



## COLD CUTTERS.

Without Handles



No. 4-A-1031. Cuts 1 1/2 in.; weight 2 1/2 lbs.  
Price.....\$0.26

## HOT CUTTERS.

Without Handles



No. 4-A-1032. Cuts 1 1/2 in.; weight 2 1/2 lbs. Price, \$0.27

## COLD CHISELS.

Made of high grade octagon tool steel of the best quality and properly tempered. Each tool guaranteed.

No. 4-A-1033.

Size Inches	Price Each
1	\$0.10
1	.13
1	.22
1	.36

## STEEL GAD TONGS.



Made of drop forge steel.

No. 4-A-1034. Length 18 in. Price.....\$0.23

## STRAIGHT LIPPED TONGS.



Made of best quality drop forge steel.

No. 4-A-1035. Length 20 in. Price.....\$0.25

No. 4-A-1036. Length 22 in. Price......26

## BOLT TONGS.



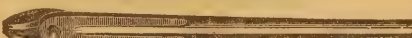
Made of best quality drop forge steel. In ordering state for what size bolts tongs are wanted.

No. 4-A-1037. Length 20 in., for bolts 1/2, 5-16, 3/8 or 1/2 in. Price.....\$0.24

No. 4-A-1038. For bolts 3/8 or 1/2 in. Price......36

No. 4-A-1039. For bolts 1/2 or 1 in. Price......42

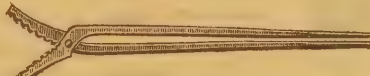
## FARRIERS' TONGS.



Made of best quality drop forge steel.

No. 4-A-1040. Length 14 in. Price.....\$0.21

## CLINCH TONGS.



Made of best quality crucible tool steel. Used for turning the clinch instead of using hammer. Useful on colts and nervous horses.

No. 4-A-1041. Price.....\$0.95

## BLACKSMITHS' PINCERS.



Made of a good grade of steel.

No. 4-A-1042. Length 14 in. Price.....\$0.40

## FARRIERS' PINCERS.



Made of the very best grade of tempered tool steel. Each pair fully warranted.

No. 4-A-1046. Length 14 in. Price.....\$0.75

No. 4-A-1047. Length 16 in. Price..... 1.05

## PREMIER CUTTING NIPPERS.



The best cutting nipper manufactured; made of the best quality steel and nicely finished. The best for horse shoers.

No. 4-A-1044. Length 12 in. Price.....\$0.90

No. 4-A-1045. Length 14 in. Price..... 1.10

## PERFECTION CUTTING NIPPERS.



Made of good quality tool steel. For cutting nails, hoofs, etc.

No. 4-A-1043. Length 14 in. Price.....\$0.53

## HOOF PARERS.



Made of best quality of steel properly tempered. Each tool fully warranted.

No. 4-A-1048. Length 12 in. Price.....\$0.89

No. 4-A-1049. Length 14 in. Price..... 1.09

## GIANT HOOF CUTTER.



This tool makes a straight cut into the hoof. Jaws open 1 1/2 in. with handle movement of 5 1/2 in. only. Can be operated with one hand. It cuts readily at first, slowing and giving more leverage as the hard shell of the hoof is reached. Is simple in construction, having but four parts, all of which are interchangeable.

No. 4-A-1050. Price.....\$1.50

## PERFECTION FARRIERS' KNIFE.



Blades made of the best steel properly tempered and can be instantly changed.

No. 4-A-1051. Price complete.....\$0.32

No. 4-A-1052. Price handles only......13

No. 4-A-1053. Price blades each......19

## CHAMPION FARRIERS' KNIFE.



With interchangeable blades. This knife has three first class blades, all different shapes, made of best English cast steel, highly tempered to hold a good and lasting edge.

No. 4-A-1054. Price per set.....\$0.74

## WOSTENHOLMS' IXL FARRIERS' KNIFE



Very popular tool with horse shoers. Furnished with stag handle.

No. 4-A-1055. Price.....\$ 0.32

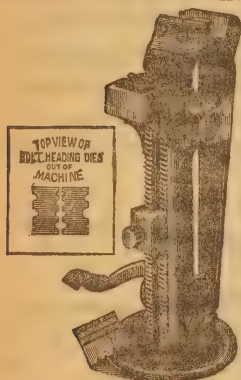


**BOLT CLIPPER.**

aws are made of solid steel specially tempered and can be adjusted to take up the work of the joints and cutting edges. Are fitted with rubber bumpers between handles. Every tool fully warranted.



- No. 4-A-396 $\frac{1}{2}$ . Size No. 0. Will cut bolts up to and including  $\frac{1}{2}$ " Length, 18". Price.....\$1.45  
 No. 4-A-397. Size No. 1. Will cut bolts up to and including  $\frac{3}{4}$ " Length, 24". Price.....\$1.95  
 No. 4-A-398. Size No. 2. Will cut bolts up to and including  $1\frac{1}{4}$ " Length, 30". Price.....\$2.60  
 No. 4-A-399. Size No. 3. Will cut bolts up to and including  $1\frac{1}{2}$ " Length, 36". Price.....\$3.58

**GREEN RIVER VISE AND BOLT HEADER**

The vise which drops open when not in use, forms both sharp and straight calks without changing the die, the forming die being made of tool steel of proper shape.

The vise is not interfered with in any way by the bolt heading attachment. The swaging plate for sharp calks is furnished with a number of grooves for large and small calks. It may be placed so that the groove will run either way as may be preferred. The treadle is at the most convenient place—at the side. Bolt heading dies are dropped in place or removed instantly without any trouble. They are set firmly by a driving taper key which is always in place.

Sizes of bolt heading dies..... $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $1$ ,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$ ,  $1\frac{3}{4}$ ,  $2$   
 Complete for shoeing or bolt heading.  
 No. 4-A-400. Price.....\$10.75

**GREEN RIVER GRADUATED TIRE MEASURE WHEEL.**

The figures and lines are raised above the surface of the wheel and cannot be filled or defaced by rust or dirt. A perfect running wheel, 24" in circumference. The index hands save trouble of marking with chalk. Accurately fitted, handy and strong.  
 No. 4-A-401. Price.....\$1.30

**SELF HEATING OIL TROUGH.**

In the base of this heater there is a holder containing mineral wool which can be saturated with gasoline or coal oil. Will heat the trough above, enabling you to oil wheels with boiling oil. Suitable for wheels with tires up to 4" wide.  
 No. 4-A-402. Price.....\$0.96

**HORSESHOER'S PRITCHEL.**

Made of  $\frac{3}{4}$ " octagon tool steel oil finished.  
 No. 4-A-403. Price.....\$0.23

**BLACKSMITH HAND HAMMERS.**

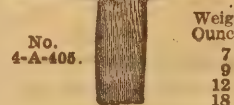
We guarantee this hammer to be absolutely perfect in every way. Made of best quality of steel, polished and complete with handles.

No.	Weight, lbs.	Price, Each.
4-A-404.	2	.46
	2 $\frac{1}{2}$	.49
	3	.53
	3 $\frac{1}{2}$	.57

**RIVETING HAMMERS.**

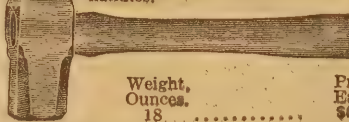
Made of best quality of steel, highly polished and complete with handles.

No.	Weight, Ounces.	Price, Each.
4-A-405.	7	\$0.22
	9	.25
	12	.27
	18	.29

**PLOW OR ENGINEERS' HAMMERS.**

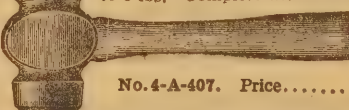
Made of very best quality of steel highly polished and complete with handles.

No.	Weight, Ounces.	Price, Each.
4-A-406.	18	\$0.35
	24	.39
	32	.43
	36	.50

**ROUNDING HAMMERS.**

Made of the very best quality of steel and correct in shape. Weight, 1 $\frac{1}{2}$  to 3 lbs. Complete with handles.

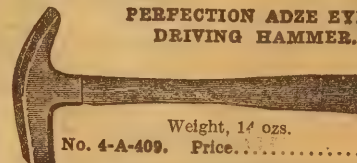
No.	Weight, lbs.	Price, Each.
4-A-407.	1 $\frac{1}{2}$	\$1.00

**SCOTCH DRIVING HAMMERS.**

Acknowledged to be the best driving hammer on the market. The rounded claw will wring a nail very easily, also pull nail without bending it. Weight, 12 to 20 ozs.



No. 4-A-408. Price.....\$0.55

**PERFECTION ADZE EYE DRIVING HAMMER.**

Weight, 1 $\frac{1}{4}$  ozs.

No. 4-A-409. Price.....\$0.36

**MACHINISTS' BALL HAMMERS.**

Made of highest grade cast steel, half polished, complete with handles. Handles not included in weight given.

No. 4-A-1725.

Weight 12 oz. 1 lb. 1 $\frac{1}{2}$  lbs. 1 $\frac{3}{4}$  lbs. 2 lbs.  
 Price, each \$0.30 \$0.35 \$0.37 \$0.40 \$0.45 \$0.49

**ROUND END PUNCH.**

No. 4-A-410.

Made of high grade octagon tool steel. Length, 10".  
 Size of Point, Size of Steel Shank.  
 Price Each.  
 ..... \$0.11  
 ..... .12  
 ..... .13

**PERFECTION HORSE RASPS.**

No. 4-A-411.

Made of high grade, carefully tempered crucible steel. Each rasp fully guaranteed.  
 Size, inches..... 12 14 16  
 Price, each.....\$0.19 \$0.24 \$0.32

**PERFECTION SLIM HORSE RASPS.**

No. 4-A-412.

Made of the very best quality crucible steel. Each tool guaranteed.  
 Size, inches..... 16 18  
 Price, each.....\$0.31 \$0.37

**HORSESHOERS' BUFFER.**

For cutting off or driving nails out of hoof.

No. 4-A-413. Price.....\$0.25

**BLACKSMITHS' STOCKS AND DIES.**

With Stocks for single die. Cuts right hand threads only.

**BLACKSMITHS' STOCKS AND DIES.**

Guaranteed to be the best possible to produce and to give perfect satisfaction. Cuts all right hand threads except No. 4-A-1695.



Catalog Number	Manufacturers No.	Cuts inch	No. of threads to inch	No. of taps in set	No. of dies in set	Price per set
4-A-1679	55	$\frac{1}{8}$ to $\frac{1}{4}$	18-24 and 32	4	3 sets	\$1.28
4-A-1680	53	$\frac{1}{8}$ to $\frac{1}{4}$	16-20-24 and 32	4	4 sets	1.45
4-A-1681	53 A	$\frac{1}{8}$ to $\frac{1}{4}$	18-20-24 and 32	4	4 sets	1.47
4-A-1682	41	$\frac{1}{8}$ to $\frac{1}{4}$	16-20 and 26	6	3 sets	1.76
4-A-1683	41 C	$\frac{1}{8}$ to $\frac{1}{4}$	12-14 and 16	6	3 sets	1.78
4-A-1684	41 D	$\frac{1}{8}$ to $\frac{1}{4}$	12-16 and 20	6	3 sets	1.80
4-A-1685	37	$\frac{1}{8}$ to $\frac{1}{4}$	14-18 and 22	6	3 sets	2.28
4-A-1686	37 A	$\frac{1}{8}$ to $\frac{1}{4}$	12-14 and 16	6	3 sets	2.31
4-A-1687	37 C	$\frac{1}{8}$ to $\frac{1}{4}$	11-12 and 16	6	3 sets	2.33
4-A-1688	34 C	$\frac{1}{8}$ to $\frac{1}{4}$	10-11 and 12	3	3 sets	2.44
4-A-1689	34 B	$\frac{1}{8}$ to $\frac{1}{4}$	12-14 and 16	3	3 sets	2.46
4-A-1690	34 A	$\frac{1}{8}$ to $\frac{1}{4}$	10-12 and 14	3	3 sets	2.48
4-A-1691	32 A	$\frac{1}{8}$ to $\frac{1}{4}$	10-11-12 and 14	4	4 sets	2.71
4-A-1692	32 B	$\frac{1}{8}$ to $\frac{1}{4}$	10-12-14 and 16	4	4 sets	2.72
4-A-1693	23	$\frac{1}{8}$ to $\frac{1}{4}$	9-10 and 14	3	3 sets	2.73
4-A-1694	23 A	$\frac{1}{8}$ to $\frac{1}{4}$	8-10 and 12	3	3 sets	2.74
4-A-1695	42 A	$\frac{1}{8}$ to $\frac{1}{4}$	{ Right hand 12 and 18 Left hand 12 }	6	3 sets	1.95

Catalog Number	Manufacturers No.	Cuts inch	No. of threads to inch	No. of taps in set	No. of dies in set	Price per set
4-A-1700	51 A	$\frac{1}{8}$ to $\frac{1}{4}$	12-14 and 16	3	3 sets	\$2.12
4-A-1701	51 B	$\frac{1}{8}$ to $\frac{1}{4}$	12-14-16 and 18	4	4 sets	2.45
4-A-1702	60 B	$\frac{1}{8}$ to $\frac{1}{4}$	10-12-14 and 18	4	4 sets	3.55
4-A-1703	27	$\frac{1}{8}$ to $\frac{1}{4}$	10-12 and 16	6	3 sets	3.58
4-A-1704	27 B	$\frac{1}{8}$ to $\frac{1}{4}$	10-11-12-14 and 16	5	5 sets	4.06
4-A-1705	27 C	$\frac{1}{8}$ to $\frac{1}{4}$	10-11-12-14-16 and 18	6	6 sets	4.60
4-A-1706	27 D	$\frac{1}{8}$ to $\frac{1}{4}$	10-11-12-14-16-18 and 20	7	7 sets	5.05
4-A-1707	27 A	$\frac{1}{8}$ to $\frac{1}{4}$	10-11 and 12	6	3 sets	3.55
4-A-1708	19 B	$\frac{1}{8}$ to $\frac{1}{4}$	8-9-10 and 11	4	4 sets	4.83
4-A-1709	19 C	$\frac{1}{8}$ to $\frac{1}{4}$	8-9-10-11 and 12	5	5 sets	5.67

**GOOD TOOLS.**

A mechanic is judged by the quality and condition of his tools. Therefore, we have taken extreme caution to buy only the best grades and most reliable makes of tools, which are illustrated in this Catalog at money saving prices, all covered by our guarantee of quality and satisfaction.



# SCREW PLATES, STOCKS AND DIES

## GREEN RIVER SCREW PLATES.

The quality of Green River Screw Plates both as to material and workmanship is of the highest standard, and its simplicity and durability with its moderate price make it particularly attractive. It does its work with a single cut. The die is adjustable for work and to make bolts or nuts fit tightly or loosely as it may be desired.

Will send sets  $\frac{1}{2}$  inch over size V thread, unless otherwise ordered. This thread fits standard carriage and machine bolts.



$\frac{1}{2}$  to  $\frac{1}{2}$  inch. Stock is 22 inches long. Five sizes:  
 $\frac{1}{2}$  x 20 Threads  $\frac{1}{2}$  x 12 Threads  $\frac{1}{2}$  x 10 Threads  
 $\frac{1}{2}$  x 18 Threads  $\frac{1}{2}$  x 11 Threads  
 No. 4-A-345. Taps, dies and guide complete in hardwood case without tap wrench. Price \$7.19  
 No. 4-A-346. Same as above with tap wrench. Price \$8.30



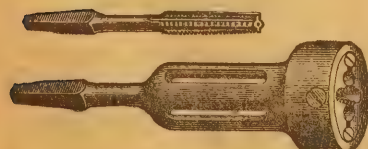
$\frac{1}{2}$  to  $\frac{1}{2}$  inch. Stock is 22 inches long. Seven sizes:  
 $\frac{1}{2}$  x 20 Threads  $\frac{1}{2}$  x 14 Threads  $\frac{1}{2}$  x 11 Threads  
 $\frac{1}{2}$  x 18 Threads  $\frac{1}{2}$  x 12 Threads  $\frac{1}{2}$  x 10 Threads  
 $\frac{1}{2}$  x 16 Threads  
 No. 4-A-347. Taps, dies and guide complete in hardwood case without tap wrench. Price \$9.45  
 No. 4-A-348. Same as above with tap wrench. Price \$10.50



$\frac{1}{2}$  to 1 inch. Stock is 29 inches long. Nine sizes:  
 $\frac{1}{2}$  x 20 Threads  $\frac{1}{2}$  x 14 Threads  $\frac{1}{2}$  x 10 Threads  
 $\frac{1}{2}$  x 18 Threads  $\frac{1}{2}$  x 12 Threads  $\frac{1}{2}$  x 9 Threads  
 $\frac{1}{2}$  x 16 Threads  $\frac{1}{2}$  x 11 Threads  $\frac{1}{2}$  x 8 Threads  
 No. 4-A-349. Taps, dies and guide complete in hardwood case without tap wrench. Price \$16.00  
 No. 4-A-350. Same as above with tap wrench. Price \$17.75

## TAPS, DIES AND HOLDERS.

For Use in Bit Brace.



Making perfect threads at a single cut.

Size, inches.  $\frac{1}{2}$   $\frac{3}{4}$  1 1  $1\frac{1}{2}$  2 2  $2\frac{1}{2}$   
 No. 4-A-344. Die, tap and holder complete. \$1.70 1.70 1.75 2.00 2.10  
 No. 4-A-344A. Die only .90 .90 .90 .90 1.05  
 No. 4-A-344B. Tap only .45 .45 .50 .55 .63  
 No. 4-A-344C. Holders, separately, any size, each. .60  
 Unless otherwise ordered we will send these taps and dies  $\frac{1}{2}$  inch over size V thread.

## "LIGHTNING" FULL MOUNTED SCREW PLATES.

Will send sets  $\frac{1}{2}$  inch over size V thread, unless otherwise ordered. This thread fits standard carriage and machine bolts.



$\frac{1}{2}$  to  $\frac{1}{2}$  inch inclusive. A stock with each die. Seven sizes:  
 $\frac{1}{2}$  x 20 Threads  $\frac{1}{2}$  x 14 Threads  $\frac{1}{2}$  x 11 Threads  
 $\frac{1}{2}$  x 18 Threads  $\frac{1}{2}$  x 12 Threads  $\frac{1}{2}$  x 10 Threads  
 $\frac{1}{2}$  x 16 Threads  
 No. 4-A-351. Taps, dies and stock complete in hardwood case without tap wrench. Price \$11.25  
 No. 4-A-352. Same as above with tap wrench. Price \$12.65



$\frac{1}{2}$  to 1 inch inclusive. A stock with each die. Nine sizes:  
 $\frac{1}{2}$  x 20 Threads  $\frac{1}{2}$  x 14 Threads  $\frac{1}{2}$  x 10 Threads  
 $\frac{1}{2}$  x 18 Threads  $\frac{1}{2}$  x 12 Threads  $\frac{1}{2}$  x 9 Threads  
 $\frac{1}{2}$  x 16 Threads  $\frac{1}{2}$  x 11 Threads  $\frac{1}{2}$  x 8 Threads  
 No. 4-A-353. Taps, dies and stock complete in hardwood case without tap wrench. Price \$18.00  
 No. 4-A-354. Same as above with tap wrench. Price \$19.75

## "LITTLE GIANT" SPLIT DIE SCREW PLATES.



Round, adjustable dies  $\frac{1}{2}$  inch diameter, each set complete with an adjustable tap wrench, neatly packed in velvet lined cases.

No. 4-A-335. 5 Taps, 5 Dies, Stock and Adjustable Tap Wrench. Cutting 436, 632, 832, 1024, 1224. Price...\$2.90  
 No. 4-A-336. 5 Taps, 5 Dies, Stock and Adjustable Tap Wrench. Cutting  $\frac{1}{2}$  40,  $\frac{3}{32}$  32,  $\frac{1}{8}$  24,  $\frac{3}{16}$  24,  $\frac{1}{2}$  20. Price...\$2.90  
 No. 4-A-337. 6 Taps, 6 Dies, Stock and Adjustable Tap Wrench. Cutting 436, 632, 832, 1024, 1224, 1420. Price...\$3.35  
 No. 4-A-338. 6 Taps, 6 Dies, Stock and Adjustable Tap Wrench. Cutting  $\frac{1}{2}$  40,  $\frac{3}{32}$  32,  $\frac{1}{8}$  24,  $\frac{3}{16}$  24,  $\frac{1}{2}$  20. Price...\$3.35  
 No. 4-A-339. 7 Taps, 7 Dies, Stock and Adjustable Tap Wrench. Cutting  $\frac{1}{2}$  40,  $\frac{3}{32}$  32,  $\frac{1}{8}$  24,  $\frac{3}{16}$  24,  $\frac{1}{2}$  20. Price...\$3.90  
 No. 4-A-340. 10 Taps, 10 Dies, Stock and Adjustable Tap Wrench. Cutting 256, 348, 436, 536, 632, 832, 1024, 1224, 1420, 1618. Price...\$5.10

## "LIGHTNING" ADJUSTABLE TAP AND REAMER WRENCH.



The strongest and most durable tap wrench made. Jaws are tool steel, closely fitted. Handles of best tubing, capped and knurled. Motion of the jaws is made through differential screws turning one handle. The tap thus firmly gripped will not drop out.

No. 4-A-341. Length 10  $\frac{1}{2}$  inches for hand taps and reamers  $\frac{1}{2}$  to  $\frac{1}{2}$  inch inclusive. Price...\$1.55  
 No. 4-A-342. Length 16 inches for hand taps, and reamers  $\frac{1}{2}$  to  $\frac{1}{2}$  inch inclusive. Price...\$2.00  
 No. 4-A-343. Length 21 inches for hand taps, and reamers  $\frac{1}{2}$  to 1 inch inclusive. Price...\$2.50

## BLACKSMITHS' PLUG AND TAPEE TAPS.



TAPER.



PLUG.

Always give catalog number, size and number of threads when ordering. Made of the best tool steel. Each tool guaranteed.

No. 4-A-355. Taper.		No. 4-A-355B. Plug.		Price
Size	Hand	Number of threads to the inch		Each
1	Right	30 or 32		\$0.11
1	Right	24 or 26		.11
1	Right	18-20-22-24 or 26		.12
1	Right	16-18-20 or 22		.12
1	Right	12-14-16 or 18		.12
1	Left	14		.15
1	Right	12-14-16 or 18		.15
1	Left	12-14		.16
1	Right	12-14-16 or 18		.16
1	Left	12		.19
1	Right	10-12 or 14		.19
1	Left	10 or 12		.20
1	Right	10-11-12 or 14		.20
1	Left	10 or 12		.26
1	Right	8-9-10 or 12		.26
1	Left	9		.36
1	Right	8-9 or 10		.36
1	Left	8 or 9		.49
1	Right	7-8-9 or 10		.49
1	Left	8 or 9		.69
1	Right	6-7-8 or 9		.69
1	Left	6-7 or 8		1.18
1	Right	6-7 or 8		1.19

## MACHINISTS' HAND TAPS.

No. 4-A-356. Orders for Hand Taps up to and including  $\frac{1}{2}$  will be filled with shanks the full size of threads. Orders for  $\frac{1}{2}$  and larger will be filled with shanks the size of bottom of thread. All orders will be filled with V standard threads, exact sizes.



TAPER.



PLUG.



BOTTOMING.

Diam. of Taps			Diam. of Taps		
No.	Price	Price	No.	Price	Price
of Each	per set of three	per set of three	of Each	per set of three	per set of three
1	24	\$0.14	1	11	\$0.36
1	20	.18	1	10	.42
1	18	.20	1	10	.48
1	16	.22	1	10	.56
1	14	.24	1	9	.64
1	12	.28	1	9	.72
1	12	.32	1	8	.80

## TAPER REAMERS. For Bit Brace Use.



No. 4-A-357. These reamers are intended to enlarge holes when punching or drilling is not quite perfect. They are made of the finest steel in the most careful manner. The quality and finish will be found very superior. They can be used on hard wood as well as iron. Made  $\frac{1}{2}$  inch over size.

Diam. of Taps		Diam. of Taps	
Inches	Price Each	Inches	Price Each
1	\$0.27	1	\$0.63
1	.30	1	.72
1	.33	1	.84
1	.36	1	.96
1	.42	1	1.08
1	.48	1	1.20
1	.54		



# BOLTS, NUTS, WASHERS.

ALL SIZES AND KINDS. IF WE DO NOT LIST WHAT YOU REQUIRE WRITE US FOR INFORMATION.  
CARRIAGE BOLTS. MACHINE BOLTS. FLAT HEAD STOVE BOLTS.



No. 4-A-4. These have oval heads, square shoulders, perfect thread, with forged nuts.

3-16 OR 1-4 INCH DIAMETER. 100 BOLTS IN A PACKAGE. (Always state size bolt wanted.)

Will sell 50 bolts at one-half 100 price.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.24	\$0.04	3 1/2	\$0.33	\$0.06
1 3/4	.25	.04	4	.36	.07
1 7/8	.26	.04	4 1/2	.40	.07
2	.27	.05	5	.42	.07
2 1/4	.28	.05	5 1/2	.45	.07
2 1/2	.29	.05	6	.47	.07
2 3/4	.30	.06	6 1/2	.56	.08
3	.31	.06	7	.61	.08
3 1/2	.32	.06	8	.65	.09

5-16 INCH DIAMETER. 50 BOLTS IN A PACKAGE. (Be sure to state length wanted.)

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.30	\$0.05	4	\$0.44	\$0.07
1 3/4	.31	.05	4 1/2	.48	.08
1 7/8	.32	.05	5	.50	.08
2	.33	.05	5 1/2	.53	.09
2 1/4	.34	.06	6	.59	.09
2 1/2	.35	.06	6 1/2	.78	.10
2 3/4	.36	.06	7	.82	.11
3	.38	.06	7 1/2	.86	.12
3 1/4	.40	.07	8	.90	.13
3 1/2	.41	.07	9	.94	.14
3 3/4	.42	.07	10	.98	.15

3-8 INCH DIAMETER. 50 BOLTS IN A PACKAGE. (Be sure to state length wanted.)

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.41	\$0.07	5	\$0.65	\$0.11
1 3/4	.43	.07	5 1/2	.67	.11
1 7/8	.45	.07	6	.72	.12
2	.47	.08	6 1/2	.76	.13
2 1/4	.49	.08	7	.80	.13
2 1/2	.51	.08	7 1/2	1.12	.15
2 3/4	.53	.09	8	1.18	.16
3	.55	.09	8 1/2	1.24	.17
3 1/4	.57	.09	9	1.30	.18
3 1/2	.59	.10	10	1.36	.19
4	.61	.10	11	1.43	.20
4 1/2	.63	.10	12	1.50	.21

1-2 INCH DIAMETER. 50 BOLTS IN A PACKAGE. (Be sure to state length wanted.)

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.96	\$0.14	6	\$1.47	\$0.21
1 3/4	.97	.15	6 1/2	1.53	.21
1 7/8	.98	.15	7	1.59	.22
2	.99	.16	7 1/2	1.65	.22
2 1/4	1.00	.16	8	1.73	.23
2 1/2	1.05	.17	8 1/2	1.84	.25
2 3/4	1.07	.17	9	1.96	.26
3	1.12	.17	10	2.20	.29
3 1/4	1.14	.17	11	2.34	.31
3 1/2	1.21	.18	12	2.48	.33
4	1.27	.18	13	2.64	.35
5	1.34	.19	14	2.78	.37
5 1/2	1.41	.20	15	2.92	.39

We will sell you 50 of any one size of the above bolts at one-half price of 100.

## TIRE BOLTS.



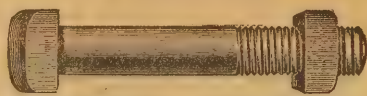
No. 4-A-5. Made of special material. Each bolt perfectly formed and threaded. Each bolt fitted with square nuts.

3-16 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Length Inches	Price per 100
1 1/2	\$0.14	2 1/2	\$0.17
1 3/4	.14	2 3/4	.18
1 7/8	.15	2 7/8	.19
2	.16	3	.20

1-4 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Length Inches	Price per 100
1 1/2	\$0.21	2 1/2	\$0.25
1 3/4	.21	2 3/4	.26
1 7/8	.21	2 7/8	.27
2	.22	3	.29
2 1/2	.23	4	.32



No. 4-A-6. These bolts have square heads and nuts, are made of the very best material and each bolt perfectly threaded and guaranteed.

1-4 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.40	\$0.05	4 1/2	\$0.57	\$0.09
1 3/4	.45	.06	5	.60	.09
1 7/8	.46	.07	5 1/2	.63	.09
2	.47	.07	6	.68	.09
2 1/4	.49	.07	6 1/2	.74	.10
2 1/2	.50	.08	7	.80	.11
3 1/2	.53	.08			

5-16 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.49	\$0.06	4 1/2	\$0.74	\$0.10
1 3/4	.52	.07	5	.77	.10
1 7/8	.55	.08	5 1/2	.81	.11
2	.58	.08	6	.85	.12
2 1/4	.61	.08	6 1/2	.90	.13
2 1/2	.65	.09	7	.97	.14
3 1/2	.69	.10			

3-8 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.50	\$0.07	4 1/2	\$0.97	\$0.13
1 3/4	.62	.07	5	1.03	.14
1 7/8	.67	.08	5 1/2	1.13	.15
2	.71	.09	6	1.19	.16
2 1/4	.77	.10	6 1/2	1.27	.17
2 1/2	.83	.11	7	1.35	.18
3 1/2	.91	.12	8	1.40	.19

1-2 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$1.08	\$0.16	7	\$1.92	\$0.28
1 3/4	1.18	.17	8	2.08	.30
1 7/8	1.24	.18	9	2.26	.33
2	1.29	.19	10	2.40	.36
2 1/4	1.38	.20	11	2.58	.39
2 1/2	1.47	.21	12	2.70	.42
2 3/4	1.53	.22	14	3.25	.46
3	1.62	.23	16	3.25	.46
3 1/4	1.70	.24	18	3.55	.50
3 1/2	1.78	.25	19	3.75	.57
3 3/4	1.86	.26	20	3.90	.59

9-16 AND 5-8 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$1.75	\$0.23	7	\$3.13	\$0.41
1 3/4	1.86	.25	8	3.38	.42
1 7/8	1.98	.26	9	3.63	.45
2	2.12	.28	10	3.88	.48
2 1/4	2.24	.30	11	4.14	.53
2 1/2	2.37	.32	12	4.39	.56
2 3/4	2.52	.34	14	4.90	.62
3	2.62	.36	16	5.41	.69
3 1/4	2.75	.38	18	5.90	.75
3 1/2	2.87	.39	19	6.17	.80
3 3/4	3.00	.40	20	6.42	.85

3-4 INCH DIAMETER BOLTS.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$2.40	\$0.32	7	\$4.24	\$0.60
1 3/4	2.57	.36	8	4.56	.62
1 7/8	2.73	.37	9	4.90	.65
2	2.90	.42	10	5.23	.69
2 1/4	3.07	.44	11	5.57	.73
2 1/2	3.23	.47	12	5.90	.80
2 3/4	3.40	.49	14	6.56	.86
3	3.57	.52	16	7.24	.96
3 1/4	3.73	.54	18	7.90	1.06
3 1/2	3.90	.56	20	8.56	1.15
3 3/4	4.07	.58	24	9.90	1.25

We will sell 50 of any one size of above bolts at one-half price of 100.

ROUND HEAD STOVE BOLTS.



No. 4-A-7.

3-16 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.13	\$0.03	1 1/2	\$0.16	\$0.03
1 3/4	.13	.03	1 3/4	.17	.03
1 7/8	.14	.03	2	.18	.03
2	.15	.03	2 1/2	.19	.04
2 1/4	.15	.03	3	.22	.04
2 1/2	.16	.03			

1-4 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.17	\$0.03	1 1/2	\$0.22	\$0.04
1 3/4	.17	.03	1 3/4	.23	.04
1 7/8	.17	.03	2	.23	.04
2	.18	.03	2 1/2	.26	.05
2 1/4	.19	.03	3	.29	.05
2 1/2	.20	.04			

5-16 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.27	\$0.05	1 1/2	\$0.32	\$0.05
1 3/4	.28	.05	2	.34	.06
1 7/8	.29	.05	2 1/2	.37	.06
2	.30	.05	3	.42	.07
2 1/4	.31	.05			



No. 4-A-8.

3-16 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.13	\$0.03	1 1/2	\$0.17	\$0.03
1 3/4	.13	.03	1 3/4	.18	.03
1 7/8	.13	.03	2	.19	.04
2	.14	.03	2 1/2	.20	.04
2 1/4	.15	.03	3	.23	.04
2 1/2	.16	.03			

1-4 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.17	\$0.03	1 1/2	\$0.23	\$0.03
1 3/4	.17	.03	1 3/4	.24	.03
1 7/8	.19	.03	2	.25	.04
2	.19	.03	2 1/2	.27	.04
2 1/4	.20	.03	3	.29	.04
2 1/2	.20	.03			

5-16 INCH DIAMETER.

Length Inches	Price per 100	Price per doz.	Length Inches	Price per 100	Price per doz.
1 1/2	\$0.27	\$0.04	1 1/2	\$0.33	\$0.05
1 3/4	.28	.04	2	.35	.05
1 7/8	.29	.04	2 1/2	.38	.06
2	.30	.04	3	.41	.06
2 1/4	.31	.05			

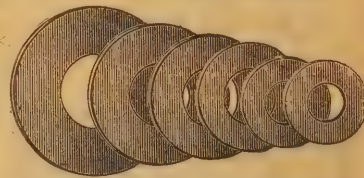
MIXED BOLTS.

No. 4-A-9. Mixed Bolts of all kinds, square and round heads, sizes running up to 1 inch in diameter and lengths running from 1 to 20 inches. We secure these bolts from manufacturers whose lots become mixed and do not wish to take the trouble to sort them.

Lot No. 1.

Price in 50 lb. lots or less, per lb. .... \$0.04  
Price in 100 lb. lots, per lb. .... .03 1/2

WROUGHT IRON WASHERS.



No. 4-A-10. These washers are made to easily fit the size of bolt given.

Bolt inches. 1/2 3/4 1 1 1/4 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 11 12 13 14 15 16 17 18 19 20  
No. in lb. 400 139 113 68 26 13 10 9 6 4  
Price per lb. \$0.09 .07 .06 .05 .04 .04 .04 .04 .04 .04

BLANK AND THREADED NUTS.

No. 4-A-11.

Bolt Inches	Number in lb.	Price Blank per lb.
1	74	\$0.09
1 1/2	39	.08
1 3/4	21	.07
1 7/8	13	.06
2	12	.05
2 1/4	7	.05
2 1/2	6	.05
2 3/4	3	.04
3	2	.04
3 1/2	2	.04

THREADED NUTS.

No. 4-A-12.



# MACHINISTS' TOOLS.

## TESTED STRAIGHT LINK STEEL COIL CHAIN.



No. 4-A-82. Every bit of this chain is made by improved process. All links in chain are thoroughly tested. Guaranteed to be full size and strength.

Size Inches	Approx. Weight Per ft.	Price Per ft.	Size Inches	Approx. Weight Per ft.	Price Per ft.
1/2	8 oz.	\$0.04	1 1/2	2 lb.	\$0.08
3/4	12 oz.	.05	2	3 lb.	.10
1	1 1/2 lb.	.06	3	4 1/2 lb.	.16
1 1/4	1 1/2 lb.	.07	4	6 lb.	.23

## CHAIN HOOKS.



No. 4-A-83. Made of the very best material for the purpose. Each hook guaranteed.

## ROUND HOOK.

For chain  
inches. 1/2 3/4 1  
Price each ...6c .9c .12c

## GRAB HOOK.

No. 4-A-84.

For chain inches	Price each
1/2	.6c
3/4	.9c
1	.12c

## WROUGHT IRON CHAIN REPAIR LINKS. For Cutting and Repairing Chain.

No. 4-A-85. To Weld.

Diam. of chain inches	Price per doz.
1/2	40
3/4	40
1	8c
1 1/4	11c
1 1/2	23c



## MALLEABLE REPAIR LINKS.

No. 4-A-86. These links combine simplicity and strength and can be applied without tools. For chain size, in. 1/2 3/4 1 1 1/4 1 1/2 2  
Price each, .34c .34c .46c .46c .70c .99c  
Price per dozen 34c 34c 46c 46c 70c 99c  
We will furnish these links in lots of half dozen at dozen price.

## ENGINEERS' DOUBLE END BLACK FINISH DROP FORGE STEEL WRENCHES.



No. 4-A-87.

Size No.	Size bolts of U.S. Standard Nuts	Extreme Length Inches	Opening Inches	Price Each
23	1/2 to 1	4	1 1/2 to 2	\$0.09
25	1/2 to 1	4 1/2	1 1/2 to 2 1/2	.11
26	1/2 to 1	5	1 1/2 to 2 1/2	.12
27	1/2 to 1	5 1/2	1 1/2 to 2 1/2	.13
29	1/2 to 1	6	1 1/2 to 2 1/2	.15
30	1/2 to 1	7	1 1/2 to 2 1/2	.17
31	1/2 to 1	9	1 1/2 to 2 1/2	.25
34	1/2 to 1	11	1 1/2 to 2 1/2	.32
37	1/2 to 1	13	1 1/2 to 2 1/2	.37
38	1/2 to 1	13 1/2	1 1/2 to 2 1/2	.39
39	1/2 to 1	13 1/2	1 1/2 to 2 1/2	.47
40	1/2 to 1	15 1/2	1 1/2 to 2 1/2	.47
41	1/2 to 1	15 1/2	1 1/2 to 2 1/2	.49

## DROP FORGE "S" WRENCH. For general purposes.



No. 4-A-88. This wrench is of long, light pattern, designed for use on agricultural machinery.

Standard Nut Size Bolt	Size of Opening	Extreme Length	Price Each
1/2 and 3/4	1/2 and 3/4	6 1/2	\$0.06
1 and 1 1/4	1 and 1 1/4	7 1/2	.08
1 1/2 and 2	1 1/2 and 2	8 1/2	.13
2 1/2 and 3	2 1/2 and 3	9 1/2	.17
3 1/2 and 4	3 1/2 and 4	10 1/2	.21
Price per set of five wrenches.			.64c

## RATCHET TIRE BOLT WRENCH.

No. 4-A-89. Used by blacksmiths and wheelwrights. One end is for 1/2 inch, and the other for 3/4 inch tire or carriage bolts. Length 6 inches.  
Price .....40c



## STEEL ALLIGATOR WRENCH.



No. 4-A-90. Can be used for pipe bolts or nuts up to 1/2 inch in diameter. Price each .....6c

## DOUBLE END HANDY WRENCH.

No. 4-A-91. Drop forge tool steel properly tempered, polished and nickel plated. Used for pipe, bolts or nuts.



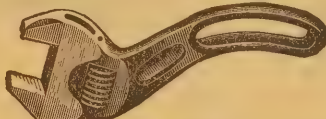
Size No.	Takes Inches	Price Each	Size No.	Takes Inches	Price Each
1	1/2 to 1	\$0.17	2 1/2	1 1/2 to 2 1/2	\$0.38
2	1/2 to 1	.24	3	1 1/2 to 2 1/2	.58

## DROP FORGE GRIP WRENCH.



No. 4-A-92. Made of special high grade tool steel. Will grip any surface round or square, from 1/2 to 1 in diameter. Has three dies in center suitable for re-threading bolts that have damaged threads. Will re-thread bolts of following sizes:  
1/2 3/4 1 1 1/2 2  
Price each .....33c

## ADJUSTABLE "S" WRENCH.



No. 4-A-93. A strictly high grade guaranteed tool made to stand the hardest wear.  
Length inches .....6 8 10 12 14  
Opens inches .....1 1 1/2 1 3/4 2  
Price each .....\$0.33 \$0.43 \$0.58 \$0.73 \$0.98

## AGRICULTURAL MONKEY WRENCH.



No. 4-A-94. This wrench is of extra heavy forged steel. Bar and head forged from one piece. Deep, milled screw thread. Steel knurl opens full. Every wrench fully warranted.

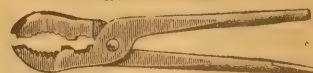
Size Inches	Price Each	Size Inches	Price Each
6	\$0.16	12	\$0.33
8	.20	15	.40
10	.23		

## KNIFE HANDLE MONKEY WRENCH.



No. 4-A-95. Machinists' pattern, designed especially for mechanics' use. All parts are made of the best material accurately fitted and every wrench warranted.  
Size inches .....6 8 10 12 15 18 21  
Price, each .....\$0.35 .41 .43 .55 .96 1.10 1.41

## GAS PLIERS.



No. 4-A-387. Made of best grade steel, drop forged.  
Length, inches .....7 8 9 10  
Price, each .....\$0.20 \$0.25 \$0.30 \$0.35

## BURNER PLIERS.

No. 4-A-388.

Made of best grade steel, drop forged.

Size .....6

Inches .....Each

5 .....\$0.15

6 ......20

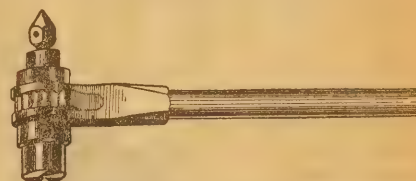


## COMBINATION PLIERS.



No. 4-A-389. Made of the best grade of tool steel. Have both flat and pipe jaws adjusted with two clutches and will grip up to 1/2 inch gas pipe. One handle is extended into a finely tempered screw driver and sharpened between jaws, making a wire cutter. Handsomely nickel plated.  
Size, inches .....6 8 10  
Price, each .....\$0.35 \$0.38 \$0.41

## GENUINE PACKER BOILER RATCHETS. For Square Shank Drills.



No. 4-A-390. These tools are made from selected materials only and are designed to withstand long and continued service. The handles are forged from the highest grade machine steel. Ratchet wheels and palls are forged from best quality of steel. The feed points are tool steel, hardened and tempered. All parts are carefully machined, highly finished and fitted together to work smoothly and with the least possible friction.  
Size .....10 12 16  
No. .....1 2 3  
Price .....\$3.65 4.25 6.40

## TAPER SQUARE SHANK DRILLS.



No. 4-A-391. To fit Boiler and Sleeve Ratchets.		Diam. Length		Price	
Inches	Length	Inches	Length	Each	Each
1/2	5	1/2	5 1/2	\$0.55	\$0.85
3/4	5	3/4	5 1/2	.60	1.12
1	6	1	5 1/2	.65	1.40
1 1/4	6 1/2	1 1/4	5 1/2	.69	1.70
1 1/2	6 1/2	1 1/2	5 1/2	.72	2.00
2	6 1/2	2	5 1/2	.75	

## LITTLE GIANT COMBINATION RATCHETS.



This Tool consists of Boiler and Machinists' socket complete, with handle which is reversible. These tools are particularly adapted to the use of Bridge Builders, Boiler Makers, Blacksmiths, Carriage Makers and various other trades.

No. 4-A-393. Combination, with 10 inch handle. ....\$3.50

No. 4-A-394. Combination, with 13 inch handle 4.15  
No. 4-A-395. Combination, with 16 inch handle 5.30



# Machinists', Blacksmiths' and Combination Vises.

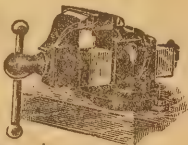


**QUICK ACTING  
SWIVEL BOTTOM  
MACHINISTS'  
SOLID JAW  
PARALLEL VISE.**

No. 4-A-12.

Size No.	Size Jaw, In.	Opens, In.	Weight	Price
8	3½	5	32	\$3.80
10	4	6	48	5.00
12	4½	7	60	6.00

**QUICK ACTING  
PATENT SWIVEL  
BOTTOM SELF  
ADJUSTING VISE.**



No. 4-A-13.

Size No.	Size Jaw, In.	Opens, In.	Weight	Price
24	3½	5	34	\$4.00



**QUICK ACTING  
STATIONARY  
BOTTOM  
MACHINISTS'  
SELF-ADJUSTING  
VISE.**

No. 4-A-14.

Size No.	Size Jaw, In.	Opens, In.	Weight	Price
23	3½	5	30	\$3.50
25	4	6	42	4.25
29	5	8	75	8.00
31	5½	9	106	9.00
33	6½	10	150	12.00

**QUICK ACTING  
MACHINISTS'  
STATIONARY  
BOTTOM, SOLID JAW,  
PARALLEL VISE.**

No. 4-A-15.

Size No.	Size Jaw, In.	Opens, In.	Weight	Price
9	4	6	42	\$ 3.85
13	5	8	68	7.00
15	5½	9	92	7.75
17	6½	10	123	10.50



**MACHINISTS'  
STATIONARY  
BOTTOM, SOLID JAW,  
PARALLEL VISE,  
NOT QUICK ACTING.**

No. 4-A-16.

Size No.	Size Jaw, In.	Opens, In.	Weight	Price
49	6½	11	117	\$10.50

## STEEL BEAM VISE.

No. 4-A-17. This vise is of very strong construction and is made with solid steel beam. The handles are of cold rolled steel and the jaws tempered steel. Furnished with bolt and nut and can therefore be used as a swivel as well as a stationary vise.

Width of Jaws, Inches	Opens, Inches	Weight, lbs.	Price Each
2½	3	11	\$1.25
3	3½	13	1.55
3½	4	19	1.78
4	6	30	2.50



Width of Jaws, Inches	Opens, Inches	Weight, lbs.	Price Each
2½	3½	8	\$0.87
3	4	14	1.05
3½	4½	22	1.60
4	6	30	1.90

## STEEL BEAM SWIVEL BASE VISE.

No. 4-A-18. This vise has a solid steel beam which gives it strength. Being fitted with a swivel bottom it can be turned rapidly either right or left. This movement is securely fastened with turn of lever.

Width of Jaws, Inches	Opens, Inches	Weight, lbs.	Price Each
2½	3	12	\$1.30
3	3½	15	1.65
3½	4	20	1.90
4	6	32	2.80



## VULCAN SWIVEL VISE.

No. 4-A-19. This is the best vise on the market in design, material, workmanship and finish. It can be turned in a position parallel with the floor. The grip is positive and will not slip.

Width of Jaws, Inches	Opens, Inches	Weight, lbs.	Price Each
3	4	28	\$3.70
3½	5	38	4.20
4	6	54	5.00
4½	6½	65	5.75

## WOODWORKERS' STATIONARY VISE.

Solid Steel Beam No. 4-A-20. This is a high grade vise equal to any on the market. The jaws are faced with special tool steel. Will take the heaviest kind of work.

Width of Jaws, Inches	Opens, Inches	Weight, lbs.	Price
4	7	46	\$4.35
4½	11	60	\$4.35
6	15	100	\$5.50



## WOODWORKERS' SWIVEL BOTTOM VISE.

No. 4-A-21. Made with solid steel beam and adjustable. Can be turned in any direction. Guaranteed to be the best vise of its kind on the market. Width of jaws 4 inch. Opens 7 inch. Weight 52 lbs. Price... \$5.50  
Width of jaws 4½ inch. Opens 11 inch. Weight 66 lbs. Price... \$6.75



## "PREMIER" STATIONARY BENCH VISE.

No. 4-A-22. We guarantee this to be the most substantial and best constructed vise of its kind on the market.

The body of the vise is made from a special mixture which makes a very tough and strong vise casting and cannot possibly be excelled in any vise.

The screw knob, head and handle are cold rolled steel. The jaws are made of the best grade of crucible tool steel. We guarantee this vise fully in every particular and will replace any broken parts free of charge.

Width Jaw, Inches	Opens, Inches	Weight, lbs.	Price Each
3	4½	25	\$2.65
3½	4½	28	3.00
4	4½	42	5.65
4½	6½	57	4.15
5	7	70	5.15

## QUICK ACTING WOODWORKERS' VISE.

This vise is used largely in Manual Training and Trade Schools throughout the country and is especially adapted for their work. It is an ideal woodworkers' vise. It is thoroughly practical and clamps the work up so it will not slip.

It is the most simply constructed vise on the market and has the fewest parts of any. There are no springs, triggers or complicated mechanism to break or get out of order.

The finish of this vise is of the very best. Jaws are of good grade of cast iron. The guide bars and screw are cold rolled steel. The nut is malleable iron. Each part is subjected to rigid inspection and guaranteed. It is not to be compared with the cheap vises of similar type on the market.

No. 4-A-23. Length of jaws 7 inches. Depth of jaws 4 inches. Opens 9 inches. Weight 29 lbs. Price... \$3.45

No. 4-A-24. Length of Jaws 10 inches. Depth of jaws 5 inches. Opens 12 inches. Weight 40 lbs. Price... \$3.95

## BLACKSMITHS' SOLID BOX VISES.

These vises are made of solid wrought iron. The jaws are of steel. The screw is deep lathe cut. Every vise guaranteed to give perfect satisfaction.

Weight, lbs.	Width of Jaws, Inches	Price Each
35	4	\$3.75
40	4½	4.00
45	4½	4.16
50	4½	4.36
55	4½	4.95
65	5	5.30
70	5½	5.70
75	5½	6.00
80	5½	6.65
90	6	7.00
100	6½	8.30



## "PREMIER" COMBINATION ANVIL, VISE, DRILL AND HARDY USEFUL COMBINATION TOOL.

No farm or workshop should be without this article. This useful combination of tools is designed to meet all requirements of farmers, mechanics, mills, mines; in fact, it is useful in every home. It consists of a vise, drill, anvil and hardy. The machine is quickly adjusted. Jaws of vise open 6 inch. Width of jaws 3½ inch, which are faced with steel.

Top of anvil is case hardened. It is adjusted by raising the top of the anvil, sliding it backward and forward, which engages the lug on the rack bar, making it perfectly rigid when in use.

It is the best outfit ever offered for the money. With it you can mend all kinds of machinery, drill holes up to ½ inch, hammer or rivet on anvil, cut iron with the hardy, file saws, sew harness, hold small articles and do many other handy and useful things. It will save its cost in three months to anyone in need of tools. It is sold under an absolute guarantee for one year.

Square shank drills are used in connection with this tool. Weight 50 lbs.

No. 4-A-26. Price complete without drills. \$3.15

No. 4-A-26B. Square shank drills to be used in connection with Combination Tool.

Size, Inches	Price Each	Size, Inches	Price Each
½	\$0.08	½	\$0.24
¾	.12	¾	.25
1	.16	1	.28
1½	.30		



## COMBINATION ANVIL AND PIPE VISE.



This vise is intended only for light work and is the best finished vise of its type on the market. Made of cast iron with chilled face. Width of jaws 3 inch. Opens 5 inch. Weight 26 lbs.

No. 4-A-27. Price... \$1.03



# Premier Hand Saws



Made from high speed steel, hardened and tempered by special process. Blades are highly polished, extra thin back, carved handles, highly polished and varnished. Five improved brass screws. The best hanging and best cutting saw ever offered.

Superior quality. Your money back if not satisfactory. Every saw fully guaranteed hand filed and set ready for use.

## PANEL SAWS

- No. 4-A-873. Straight Back.  
No. 4-A-874. Skew Back.

Length, Inches	Points to the Inch	Price
18	9, 10, 11, or 12	\$1.15
20	9, 10, 11, or 12	1.25
22	9, 10, 11, or 12	1.35

## HAND SAWS

- No. 4-A-875. Straight Back.  
No. 4-A-876. Skew Back.

Length, Inches	Points to the Inch	Price
24	8, 9, 10, or 11	\$1.40
26	7, 8, 9, 10, or 11	1.50
28	6, 7, or 8	1.70

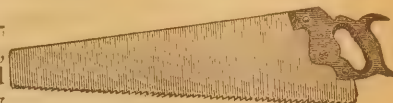
## HAND RIP SAWS

- No. 4-A-877. Straight Back.  
No. 4-A-878. Skew Back.

Length, Inches	Points to the Inch	Price
24	5, 5½, 6, or 6½	\$1.40
26	5, 5½, or 6	1.50
28	4, 4½, 5, or 5½	1.70
30	4, 4½, or 5	1.80

## CHICAGO SPECIAL HAND SAWS.

Made from high grade crucible spring steel, patent ground, hardened and tempered by special process, highly polished blade with thin back. Polished beech handles, four improved brass screws. Each saw guaranteed to be strictly first class and an excellent tool in every particular. Money back if not satisfactory. Each saw hand filed and set ready for use.



## PANEL SAWS

- No. 4-A-879. Straight Back.  
No. 4-A-880. Skew Back.

Length, Inches	Points to the Inch	Price
18	9, 10, 11, or 12	\$0.90
20	9, 10, 11, or 12	1.00
22	9, 10, 11, or 12	1.10

## HAND SAWS

- No. 4-A-881. Straight Back.  
No. 4-A-882. Skew Back.

Length, Inches	Points to the Inch	Price
24	8, 9, 10, or 11	\$1.10
26	7, 8, 9, 10, or 11	1.20
28	6, 7, or 8	1.30

## HAND RIP SAWS

- No. 4-A-883. Straight Back.  
No. 4-A-884. Skew Back.

Length, Inches	Points to the Inch	Price
24	5, 5½, 6, or 6½	\$1.10
26	5, 5½, or 6	1.20
28	4, 4½, 5, or 5½	1.30
30	4½, or 5	1.60

## LEADER HAND SAWS

Made from good quality special saw steel nicely finished, filed and set ready for use. This is a good general-purpose saw and suitable for any common work. It is not intended for carpenters' or mechanics' use. Blade is of uniform thickness, made in straight back only.

- No. 4-A-885. Hand Saw.

Length, Inches	Points to the Inch	Price
24	7, 8, 9, or 10	\$0.55
26	7, 8, 9, or 10	.60

- No. 4-A-886. Rip Saw.

Length, Inches	Points to the Inch	Price
26	5, 5½, or 6	\$0.65
28	5, 5½, or 6	.70

## COMMON HAND SAWS

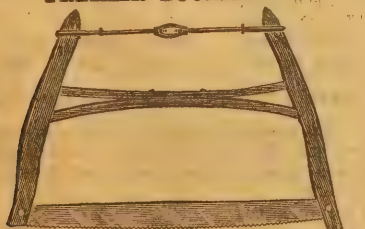


Made from cast steel, spring tempered, Beechwood handles.

- No. 4-A-887.

Length, inches	18	20	24	26
Price, each	\$0.22	\$0.25	\$0.30	\$0.35

## PREMIER BUCKSAW



The old reliable red bucksaw frame, with a high grade clock spring blue blade. Frame is made of birch and is strong and durable. Painted red and finished with two coats of good varnish. The blades are 30 inch long, thin back, with slender, deep V teeth—which makes a very fast cutter.

- No. 4-A-901. Frame complete with saw. Price ..... 55c  
No. 4-A-902. Extra blades. Price, each. 35c

## CROSS CUT SAWS

Our saws are made of the very best grade of saw steel and are tempered in oil by a special process which insures an even degree of temper throughout the entire saw. We guarantee every saw to be ground to a proper taper and to be the quickest cutting and most durable saw on the market, and if not satisfactory, in every respect we will refund your money. Each saw is set and sharpened, ready for use; handles are not included.

## DIAMOND TOOTH CROSS CUT SAWS

No. 4-A-888. Diamond tooth cross cut saws are ground 4 gauges thinner on the back to a true taper, 14-gauge at the teeth and 18-gauge at the back. Prices do not include handles.

Length, feet	5	5½	6	6½	7
Price, each	\$1.50	\$1.67	\$1.82	\$2.00	\$2.20

## CHAMPION TOOTH CROSS CUT SAWS



No. 4-A-889. Champion tooth cross cut saws are ground 2 gauges thinner on the back to a true taper, 14-gauge at the teeth and 16-gauge at the back. Prices do not include handles.

Length, feet	5	5½	6	6½	7
Price, each	\$1.30	\$1.45	\$1.60	\$1.75	\$1.90

## PERFORATED LANCE TOOTH CROSS CUT SAWS



No. 4-A-890. Perforated Lance Tooth Cross Cut Saws are ground 4 gauges thinner on the back to a true taper, 14-gauge at the teeth and 18-gauge at the back. Prices do not include handles.

Length, feet	4½	5	5½	6	6½	7
Price, each	\$1.40	\$1.60	\$1.80	\$1.90	\$2.06	\$2.25

## PLAIN TOOTH CROSS CUT SAWS



No. 4-A-891. Plain Tooth Cross Cut Saws are ground 2 gauges thinner on the back to a true taper, 14-gauge at the teeth and 16-gauge at the back. Prices do not include handles.

Length, feet	5	5½	6	6½	7
Price, each	\$1.35	\$1.50	\$1.65	\$1.80	\$1.95

## NARROW CHAMPION TOOTH CROSS CUT SAWS



No. 4-A-892. Narrow Champion Tooth Cross Cut Saws, set and sharpened and ready for use. Prices do not include handles.

Length, feet	5	5½	6	6½
Price, each	\$0.69	\$0.75	\$0.83	\$0.91



# Cross Cut and Hack Saws

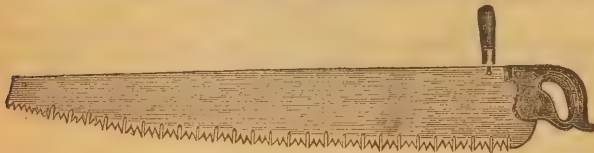
CHAMPION TOOTH ONE-MAN CROSS CUT SAWS.



No. 4-A-893. Champion Tooth One-Man Cross Cut Saws are ground 2 gauges thinner at the back and furnished with supplementary handle.

Length, feet	3	3½	4	4½	5
Price, each	\$0.95	\$1.10	\$1.25	\$1.40	\$1.60

## AMERICAN TOOTH ONE-MAN CROSS CUT SAWS.



Straight Back

No. 4-A-894. American Tooth One-Man Cross Cut Saws—straight back—ground 2 gauges thinner at the back, furnished with supplementary handles.

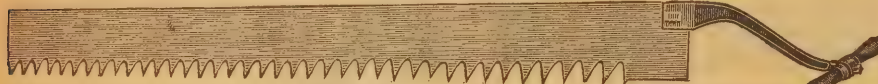
Length, feet	3	3½	4	4½	5
Price, each	\$1.00	\$1.15	\$1.35	\$1.52	\$1.70

## HAND ICE SAWS.

No. 4-A-896. For wagon use. Set and sharpened, fitted with iron handles, each saw properly tempered and fully guaranteed.

Length, inches	24	26	28	30
Price, each	\$0.70	\$0.75	\$0.80	\$0.85

## POND ICE SAWS.



Superior quality, made of the best saw steel, properly tempered and fully guaranteed.

No. 4-A-897. Pond Ice Saws, 7" butt, 5" point, set and sharpened.	4	4½	5
Length, feet			
Price, with handles	\$1.98	\$2.23	\$2.48

## HIGH GRADE COMPASS SAWS.

No. 4-A-936. Made of the very best quality crucible steel, carefully hardened and tempered. Ground thin back, made to meet the requirements of the most critical carpenter.

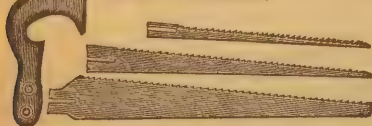
Length, inches	10	12	14	16
Price, each	\$0.20	\$0.23	\$0.25	\$0.28

## COMMON COMPASS SAWS.

No. 4-A-937. Made of the very best cast steel spring tempered, filed and set. Beech wood handles.

Length, inches	12	14
Price, each	\$0.12	\$0.14

## NEST OF SAWS.



No. 4-A-935. Consisting of one handle, one panel blade, one compass blade and one pruning blade—all interchangeable. Price, per set.

## HANDY KIT OF TOOLS.



No. 4-A-938. A handy, practical tool consisting of keyhole saw and pad chisel, screw driver, two wrenches, awl and bit handle. Made from good quality steel. Price, per set.

## WHITING SAW SET.

No. 4-A-903. Made of the best tool steel, suitable for any kind of cross cut saws. Price, each.

## HACK SAWS.



No. 4-A-939. Steel spring fit frame, nickel plated, black enamel handle. Complete with one saw blade.

Size, inches	8	10
Price, each	\$0.11	\$0.14

## HACK SAWS.



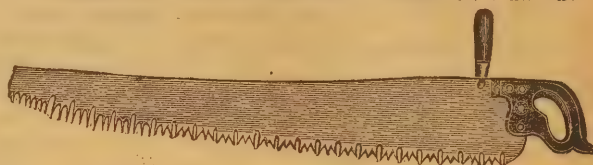
No. 4-A-940. Strong iron frame, adjustable so the blade can be set at four different angles. The pins are fastened securely in frame and will not drop out. Will take 8 inch blade only. Price, complete with one blade.

## ADJUSTABLE HACK SAW FRAME.



No. 4-A-941. Nickel plated extension hack saw frame. Takes blades from 8 to 12 inches and holds them stiff and firm. Can be set at four different angles. Price, with one 8 inch blade.

## AMERICAN TOOTH ONE MAN CROSS CUT SAWS.



Skew Back

No. 4-A-895. American Tooth One Man Cross Cut Saws—skew back—with supplementary handle.

Length, feet	3	3½	4	4½	5
Price, each	\$1.05	\$1.20	\$1.40	\$1.53	\$1.75

## CROSS CUT SAW HANDLES.

Made of selected well seasoned hard wood with malleable iron parts.

No. 4-A-898. Cross cut saw handles with loop for two man cross cut saw. Price, per pair.

No. 4-A-899. Supplementary handles for one man cross cut saws. Price each.

No. 4-A-900. One man saw handles, beech wood, varnished edges. Price, each.



## EXTENSION HACK SAW FRAME.



No. 4-A-942. Heavy steel nickel plated frame. The strongest and best hack saw frame manufactured. Takes blade from 8 to 12 inches and can be adjusted to set blades at four different angles. Price, with one blade.

## HACK SAW BLADES.



No. 4-A-943. Adapted for cutting all ordinary steel and wire, specially tempered and guaranteed to be the best cutting blade on the market.

Length, inches	8	9	10	12
Price, per doz	\$0.30	\$0.35	\$0.45	\$0.50
Price, for six	.17	.20	.25	.30

## FAST CUTTING HACK SAW BLADES.

No. 4-A-944. Special high grade, suitable for cutting tool steel and other hard metal. Will make more cuts than any other blade manufactured.

Length, inches	8	9	10	12
Price, per doz	\$0.45	\$0.48	\$0.55	\$0.65
Price, for six	.25	.29	.30	.35

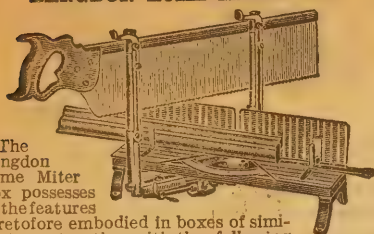
No. 4-A-945. Hack saw blades made especially for cutting brass, common pipe and tubing of all kinds. These blades have file milled teeth.

Length, inches	8	9	10	12
Price, per doz	\$0.35	\$0.40	\$0.45	\$0.50
Price, for six	.20	.23	.26	.30



## SAW TOOLS

### LANGDON ACME MITER BOX



The Langdon Acme Miter Box possesses all the features heretofore embodied in boxes of similar types together with the following improvements. The guides are one inch long, thus holding the saw steadily when drawn up to its highest capacity. These guides are provided with elevators so the saw is held stationary above the work when desired.

In addition to notches for the positive angles commonly used the Acme box has a graduated arc in front with the various degrees marked thereon, and index plate is furnished with each machine so that there can be no mistake in cutting the various degrees. The saw can be secured at any intermediate or positive angle by means of a small thumb lever in front of the box, supporting guides for holding work in place, which guides are also used where angles more acute than 45 degrees are desired. Has length gauge for duplicate lengths and steel bottom boards roughened to prevent work from slipping. The polished parts are nickel plated. Prices include first class back saw.

Size No. 1. Capacity at right angles 7½ inches. Capacity at miter 5 inches.  
Size No. 2. Capacity at right angles 10½ inches. Capacity at miters 7 inches.  
Size No. 2½. Capacity at right angles 10½ inches. Capacity at miters 7 inches.  
No. 4-A-915. Size No. 1. With 24x4" saw. Price .....\$8.70  
No. 4-A-916. Size No. 2. With 26x4" saw. Price .....\$10.90  
No. 4-A-917. Size No. 2½. With 28x5" saw. Price .....\$12.00  
No. 4-A-918. Size No. 2½. With 30x5" saw. Price .....\$12.60

### BACK SAWS



No. 4-A-933. Made of extra refined crucible steel. Stiff steel back, polished beech handles with three brass screws. Hand filed and set ready for use.  
Size, inches. .... 10 ..... 12 ..... 14 ..... 16  
Price, each. ....\$0.85....\$1.00....\$1.10....\$1.25

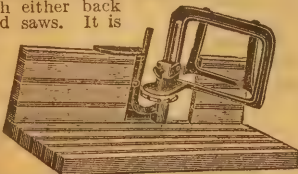
### MITER BOX SAWS



No. 4-A-934. Made from extra refined crucible steel carefully hardened and tempered, evenly ground, heavy steel back, polished beech handles with three brass screws, hand filed and set ready for use. Width of blade along back, 4 inches.  
Size, inches. .... 22 ..... 24  
Price, each. ....\$1.60....\$1.80

### PERFECTION MITER BOX

For use with either back handle or hand saws. It is quickly and easily set to accurately guide the saw in a square cut or at either 22½, 30 or 45 degrees. Right or left. Has special hardened

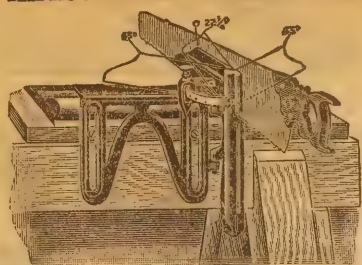


graduated steel plate and steel index lever, neither of which are susceptible to wear. Has a long saw guide assuring accuracy. Long central bearing posts with a screw clamping device, reducing to a minimum the liability of wear or looseness.

For cutting to exact depths a back saw is used, the back rib of which rests on the shoulder within the swinging saw guide.

No. 4-A-913. Price, without saw.....\$2.32

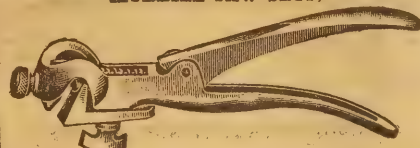
### IMPROVED SEAVEY MITER BOX



This is the lightest, most simple and most accurate miter box manufactured. No special saw is required and it can be easily folded and carried in tool chest. It will cut a miter of any width to make a perfect joint.

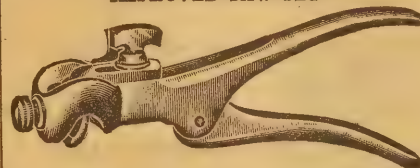
Price does not include saws.  
No. 4-A-914. Price .....\$1.47

### MORRILL SAW SETS.



No. 4-A-946. Morrill saw sets for hand, band and jig saws. Hardened anvil and plunger tempered steel springs. Price, each.....\$0.27

### IMPROVED SAW SET

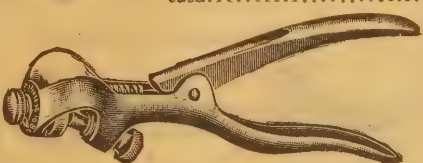


No. 4-A-947. Lever on the lower side. With this tool, the teeth of a saw can be set with great rapidity and little effort. The anvil and plunger are hardened. The springs are of tempered steel, heavy nickel plated finish. Price, each.....\$0.35

### ECCENTRIC ANVIL SAW SETS



No. 4-A-948. Made with revolving eccentric anvil. Designed to show the required bevel and length of all saw teeth ranging from 4 to 16 teeth to the inch. The figures on the dial indicate the number of teeth to the inch. Makes the work easier and does it correctly. Hardened steel anvil and plunger. Price, each.....\$0.67



### SAW JOINTER AND SKATE SHARPENER

No. 4-A-904. Adjustable to any thickness of saw blade and can be used with any flat file. Price, each.....\$0.33

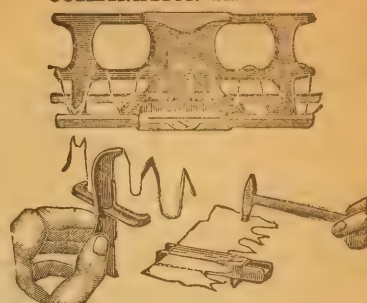


### FOLDING SAW VISE

This is the most convenient and complete saw vise manufactured. It can be attached or detached without screwing or clamping. In addition it has all the advantages of other saw vises. It is fastened by folding hooks which are driven into the bench. It has a solid bearing which does away with rattling sound when filing. It is easily folded up and placed in tool box or kit.

No. 4-A-912. Length 14 inches. Price, each .....\$0.47

### COMBINATION SAW TOOL



No. 4-A-905. Necessary to users of cross cut saws. Set consists of jointer, raker tooth gauge, setting block, set gauge and side file. Full directions with each set. Price, per set .....\$0.35

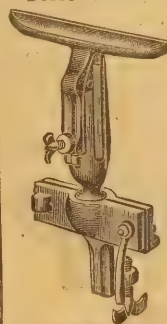
### WENTWORTH PATTERN SAW VISE

No. 4-A-909. Made with flexible rubber cushion between the jaws, which prevents vibration. Attaches to bench by means of thumb screw. Width of jaw 11 inches. Price .....\$0.44



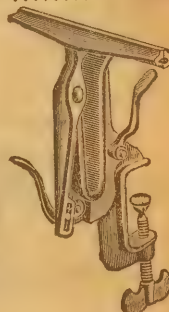
### BALL AND SOCKET SAW VISE

No. 4-A-910. By the use of this vise a saw can be filed at any angle or square, as operator may desire. Width of jaw 9½ inches. Price each .....\$0.52

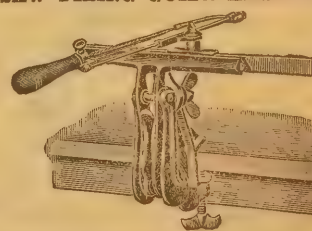


### ADJUSTABLE SAW VISE

No. 4-A-911. For attaching to work bench. This vise has malleable iron screw clamp and lever and cam for holding it in any position. Width of jaw 9½ inches. Price, each.....\$0.35



### SAW FILING GUIDE AND VISE



The front of this vise is faced with a strip of rubber which holds the saw firmly and prevents noise and vibration. The ball and socket which connects the vise and clamp allow favorable adjustment to light while filing.

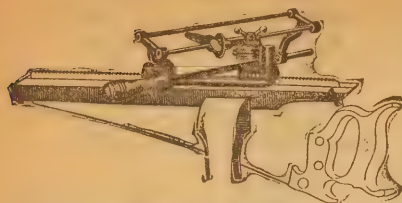
The saw has three rigid positions in which it holds the file. One position for filing the saw on first side, another for filing it on the opposite side and a third for use in filing rip saws only.

With this device saw filing is made easier and an inexperienced person can file a saw correctly. The guide bar is 16 inches long, perfectly true and highly polished. Packed in box with full directions.

No. 4-A-906. Price, complete with file, each \$1.47



## SAW FILING TOOL



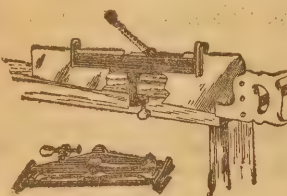
This tool is designed to be used for filing saw in a bench vise. It may be used, however, in connection with a regular saw vise. It is made entirely of steel and iron, nicely japanned. The steel parts are bright finish.

No. 4-A-907. Price, each.....\$0.95

## SAW VISE

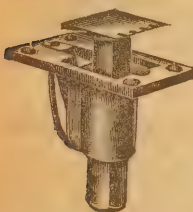
No. 4-A-908.

Can be clamped to bench or board. Holds saw firmly. Jaws open by one movement of lever. Price, each, \$0.28



## SPRING BENCH STOP

No. 4-A-1121. Strong and rigid and may be instantly adjusted from the top of the bench to any position without the use of screw driver. Reversible head, and can be raised 2 inches above bench. Price.....\$0.33



## BENCH STOP

No. 4-A-1120. Reversible screw adjustment. May be raised to desired height by turning the adjustment screw. Price.....\$0.25



## CABINET SCRAPER



No. 4-A-1124. Blade made of special tempered steel, adjustable to vary

depth of cut, raised handles, length 11 inches, 2 3/4-inch blade. Price.....\$0.60

## FLOOR SCRAPER

No. 4-A-1125.

Adjustable so that the blade can be held at any angle. Used by wood-workers, cabinet makers and for scraping blocks in meat markets. Blade is of the best tool steel. Price.....\$0.90

Price.....\$0.90

## BUTT GAUGE

No. 4-A-1126.

One bar has steel cutter at each end. When outer cutter is set for gauging the edge of the door, the cutter on the other end gauges distance from back of jamb. Guaranteed accurate, compact and convenient. Price.....\$0.43

Price.....\$0.43

## OVAL HEAD MARKING GAUGE

No. 4-A-1127.

Made of Boxwood, has oval head and best steel points and brass thumb screw. Price.....\$0.14

Price.....\$0.14

Price.....\$0.14

Price.....\$0.14

Price.....\$0.14

Price.....\$0.14

Price.....\$0.14

## MORTISE MARKING GAUGE



No. 4-A-1128. Made of Genuine polished mahogany, steel points, brass thumb screw. Price.....\$0.43

## MALLEABLE IRON SCREW CLAMPS

No. 4-A-920. With steel screw swivel heads, the strongest clamp made.

Opens, inches.....3 4 5

Price, each.....\$0.12 .15 .19

Opens, inches.....6 8 10

Price, each.....\$0.25 .35 .43

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## QUILT FRAME CLAMPS

No. 4-A-921. Ball and socket head screw. Opens 3 inches. Price, each, \$0.04. Price, per doz. \$0.44.



## WROUGHT IRON BENCH SCREWS



No. 4-A-919. Removable collars, perfectly cut threads.

Diameter inches.....1 1 1/4 1 1/2

Length inches.....15 16 17

Price, each.....\$0.27 \$0.30 \$0.38

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Price, each.....\$0.27 \$0.30 \$0.38

## IMPROVED TEMPERED STEEL BAR CLAMPS



No. 4-A-925. A screw works in two bearings, thereby greatly increasing the life of the clamp. The screw fixture is riveted to a steel bar and movable screw plate is held to screw by steel washer, and point of screw works against a specially hardened steel plate, avoiding wear of screw through plate. Washer is riveted to screw plate and cannot get out of order. Screw is 1/2 inch diameter and 7 inches long—is of cold rolled steel with a square cut thread. Saddle is held in place by notches on bottom of a tempered indestructible spring steel bar, size 1/8 x 1 1/2 inches.

Opens, feet.....2 1/2 3 4  
Price, each.....\$1.45 1.75 1.90  
Opens, feet.....5 6  
Price, each.....\$2.10 2.25

## WOOD-HAND SCREWS

No. 4-A-926. Made of the most carefully selected seasoned hard wood.



Threads are most carefully and accurately cut. Length of Size of of Price jaw screw jaw each  
8.....10.....1 1/2.....\$0.25  
10.....12.....1......30  
12.....14.....2......35  
16.....18.....2 1/2......40

## IMPROVED ADJUSTABLE HAND SCREW



The strongest hand screw made. Are made of the best seasoned maple. The jaws have but one slot, thereby retaining full strength. The spindles work in metal bearings, making the clamp absolutely rigid but easily adjustable when wanted.

Clamps work twice as fast as common wood screws, spindles having right and left threads. Handles are guaranteed not to get loose. The spindles are made of the best cold rolled steel, to which glue cannot stick.

From center of Spindle to end of Jaw Will of Open Spindle Size of Price each  
No. 4-A-927.....5 6.....1.....\$0.75  
No. 4-A-928.....6 8.....1 1/2......85  
No. 4-A-929.....6 10.....2......95  
No. 4-A-930.....8 12.....2 1/2.....1.10  
No. 4-A-931.....10 15.....3.....1.40

## FLOORING CLAMPS

No. 4-A-932. A useful and labor saving device for laying flooring. Can be used to decided advantage in laying warped or crooked flooring. Price...\$0.36





# CHICAGO SPECIAL STEEL AXES

In offering the Chicago Special Steel Axe of our brands, we wish to call your attention to the fact that these axes are hand forged and finished. The bits are made from crucible steel, manufactured especially for the purpose, and is the highest priced steel used in the manufacture of axes. It insures uniformity and makes it possible for us to offer a line of axes with cutting edges that are neither too hard nor too soft, but just right and will keep an edge longer than any other axe on the market. They require less grinding, and therefore wear longer and are in every sense a high grade tool which we can recommend to those who require the best axe it is possible to produce. Every axe is guaranteed to be perfect and entirely satisfactory or money refunded.



**No. 4-A-949.** Michigan pattern single bit Chicago Special axe, polished finish.

Weight, lbs. ....	3½	4
Price, each. ....	\$0.65	\$0.66
Weight, lbs. ....	4½	5
Price, each. ....	\$0.67	\$0.68



**No. 4-A-952.** Michigan pattern Chicago Special double bit axe, polished finish.

Weight, Lbs. ....	Price Each
3½ .....	\$0.75
4 .....	.77
4½ .....	.78
5 .....	.80



**No. 4-A-950.** Wisconsin or Western pattern single bit Chicago Special axe, polished finish.

Weight, Lbs. ....	Price Each
3½ .....	\$0.65
4 .....	.66
4½ .....	.67
5 .....	.68



**No. 4-A-953.** Wisconsin or Western pattern Chicago Special double bit axe, polished finish.

Weight, Lbs. ....	Price Each
3½ .....	\$0.75
4 .....	.77
4½ .....	.78
5 .....	.80



**No. 4-A-951.** Kentucky pattern single bit Chicago Special axe, polished finish.

Weight, Lbs. ....	Price Each
3½ .....	\$0.65
4 .....	.66
4½ .....	.67
5 .....	.68

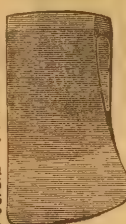
We are positive that there is nothing on the market to equal this line in workmanship, material or price.

## WILLIAM T. JONES AXES

These axes are made of the same high grade material as our Chicago special axes, but are not as carefully selected or as nicely finished. We guarantee that every axe sold under this brand is a good, serviceable tool and will give good satisfaction. In black finish only.

**No. 4-A-954.** Single bit Michigan pattern Wm. T. Jones axes.

Weight, Lbs. ....	Price, Each
3½ .....	\$0.35
4 .....	.36
4½ .....	.37
5 .....	.38



**No. 4-A-956.** Single bit Wisconsin or Western pattern Wm. T. Jones axes, black finish only.

Weight, Lbs. ....	Price Each
3½ .....	\$0.35
4 .....	.36
4½ .....	.37
5 .....	.38



**No. 4-A-957.** Double bit Michigan pattern Wm. T. Jones axes, black finish only.

Weight, Lbs. ....	Price Each
3½ .....	\$0.37
4 .....	.38
4½ .....	.39
5 .....	.40
5½ .....	.41

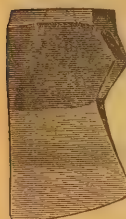


**No. 4-A-958.** Double bit Wisconsin or Western pattern Wm. T. Jones axes.

Weight, Lbs. ....	Price Each
3½ .....	\$0.37
4 .....	.38
4½ .....	.39
5 .....	.40
5½ .....	.41



Remember we are guarding your interests every minute. Your entire satisfaction as to quality, shipment and handling of your orders is the best guarantee of our future success and advancement.



**No. 4-A-955.** Single bit Kentucky pattern Wm. T. Jones axes, black finish only.

Weight, Lbs. ....	Price Each
3½ .....	\$0.35
4 .....	.36
4½ .....	.37
5 .....	.38



## FIREMEN'S AXES

**No. 4-A-961.** W. T. Jones Firemen's axes with handles.

Price, each .....	\$0.55
Price, per doz. ....	6.00



## TURPENTINE AXES

**No. 4-A-960.** Single bit Wm. T. Jones turpentine axes. Weight 3 lbs.

Price, each .....	\$0.30
Price, per doz .....	3.00

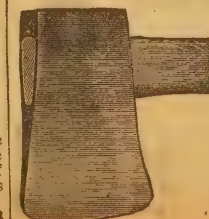


## H. T. MILLER'S HUNTER'S HATCHET



**No. 4-A-979.** A useful tool around the house as well as in camp or on the farm. It takes the place of hatchet or axe for light work. Made of the best cast steel and fitted with handle 14 inches long.

Price .....	\$0.38
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## H. T. MILLER'S BOY'S AXE

**No. 4-A-980.** Made of the best grade cast steel, nicely finished. Handy for splitting kindling. Fitted with 28 inch handle.

Price, each .....	\$0.48
-------------------	--------

## BROAD AXES

**No. 4-A-962.** Western pattern. Best crucible steel, properly tempered and guaranteed to be first class cutters.

Cut	Width	Weight	Price
Inches	Lbs.	Lbs.	Each
11 .....	6	.....	\$1.50
11½ .....	6½	.....	1.52
12 .....	7	.....	1.55
12½ .....	7½	.....	1.58
13 .....	8	.....	1.60
14 .....	9	.....	1.63



## WOOD CHOPPERS' WEDGES

**No. 4-A-963.** Regular pattern. Made of high grade cast steel properly tempered and finished. Each wedge guaranteed.

Weight, lbs. ....	4	5
Price, each .....	\$0.15	\$0.18



Unexcelled for durability and general excellence.



# PREMIER HATCHETS

Guaranteed to be the highest grade hatchets manufactured. Made of the very best grade of steel with special steel bits. Perfectly tempered and will hold the cutting edge longer than any other hatchet. Every hatchet is nicely finished and fitted with clear, second growth hickory handles, held firmly in the head with steel wedges. Each hatchet is sharpened, ready for use. Weights specified are for the hatchets before fitting handles.



**PREMIER SHINGLING  
HATCHET, BELL  
POLL**

No. 4-A-965

Size, No. ....	1	2	3
Width of bit ..	3½	3¾	4½
Weight, ounces	17	23	29
Price, each ..	\$0.60	\$0.63	\$0.68

**PREMIER HALF HATCHET,  
BELL POLL**

No. 4-A-966

Size No. ....	1	2
Width of bit ..	3½	3¾
Weight, ounces ..	15	20
Price, each .....	\$0.60	\$0.62



**PREMIER LATHING HATCHET  
BELL POLL**

No. 4-A-967

Size No. ....	1	2
Width of bit ..	2½	2¾
Weight, ounces ..	14	17
Price, each .....	\$0.59	\$0.61



## Perfection Hatchets

Made from an extra high grade cast steel. Polished and bronze finish. Fitted with the highest grade hickory handles. Each hatchet properly tempered and fully guaranteed.

**PERFECTION SHINGLING  
HATCHET**

No. 4-A-968

Size No. ....	1	2	3
Width of bit ..	3½	3¾	4½
Weight, ozs. ....	17	23	29
Price, each .....	\$0.38	\$0.42	\$0.46



**PERFECTION HALF HATCHET**

No. 4-A-970

Size No.	Width of Bit	Weight Ounces	Price Each
1.....	3	15	\$0.39
2.....	3½	20	.42
3.....	3¾	27	.46



**PERFECTION CLAW  
HATCHET**

No. 4-A-969

Size No.	Width of Bit	Weight Ounces	Price Each
1.....	3½	19	\$0.42
2.....	3¾	25	.47
3.....	4½	31	.50



**PERFECTION LATHING  
HATCHET**

No. 4-A-971

Size No.	Width of Bit	Weight Ounces	Price Each
1.....	2½	14	\$0.37
2.....	2¾	17	.40

## H. T. MILLER'S HATCHETS

These hatchets are made of the same grade of cast steel as our Perfection Hatchets, but are not as carefully selected or as nicely finished. We guarantee that every hatchet in this line is a good serviceable tool and will give good satisfaction.

Each hatchet is fitted with selected hickory handles and sharpened ready for use.

**H. T. MILLER'S  
SHINGLING HATCHET**

No. 4-A-972

Size No.	Width of Bit	Weight Ounces	Price Each
1.....	3½	17	\$0.25
2.....	3¾	23	.27
3.....	4½	29	.29



**H. T. MILLER'S  
CLAW HATCHETS**

No. 4-A-973

Size No.	Width of Bit	Weight Ounces	Price Each
1.....	3½	14	\$0.27
2.....	3¾	25	.29
3.....	4½	31	.30



**H. T. MILLER'S  
HALF HATCHETS**

No. 4-A-974

Size No.	Width of Bit	Weight Ounces	Price Each
1.....	3½	15	\$0.25
2.....	3¾	20	.27
3.....	4	27	.29



**H. T. MILLER'S LATHING  
HATCHET**

No. 4-A-975

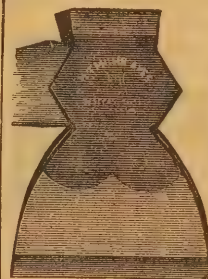
Size No.	Width of Bit	Weight Ounces	Price Each
1.....	2½	14	\$0.30
2.....	2¾	17	.33



**H. T. MILLER'S  
BROAD HATCHET**

No. 4-A-976

Size No.	Width of Bit	Weight Lbs.	Price Each
2.....	4½	1½	\$0.40
3.....	5	2½	.45
4.....	5½	2½	.50
5.....	6	2½	.55



**H. T. MILLER'S  
CARPENTER'S ADZES**

No. 4-A-977. Made of the best grade of cast steel, bronze finish, polished bits. Prices do not include handles.

Width Cut Inches	Price Each
3½.....	\$0.75
4.....	.80
4½.....	.85



**H. T. MILLER'S SHIP ADZES**

No. 4-A-978

No. 4-A-978. Made of the best grade of cast steel, bronze finish, polished bits. Prices do not include handles.

Width Cut Inches	Price Each
4½.....	\$0.95
4¾.....	1.05



When you compare our prices with others — consider our guarantee is that all goods are absolutely as represented or your money refunded.




# HANDLES, PICKS, BARS AND HAMMERS

We offer hickory handles in two grades, both of which are from selected hickory.


**FIRST GRADE** are strictly clear, sand papered and polished and are regularly used by the mechanic.

**SECOND GRADE** are carefully selected, nicely finished and good general purpose handles, somewhat discolored and have few defects, but in every sense serviceable.


## SINGLE BIT AXE HANDLES

	
No. 4-A-981. First grade, length 36 inches.	
Price, each	\$0.11
Price, per doz.	1.20
No. 4-A-982. First grade, length 28 inches.	
Price, each	\$0.10
Price, per doz.	1.10
No. 4-A-983. Second grade, length 36 inches.	
Price, each	\$0.07
Price, per doz.	.75
No. 4-A-984. Second grade, length 28 inches.	
Price, each	\$0.06
Price, per doz.	.70


## DOUBLE BIT AXE HANDLES

	
No. 4-A-985. First grade, length 36 inches.	
Price, each	\$0.14
Price, per doz.	1.60
No. 4-A-986. Second grade, length 36 inches.	
Price, each	\$0.06
Price, per doz.	.60

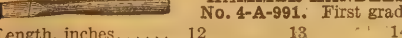
## ADZE HANDLES

	
No. 4-A-987. First grade, length 34 inches.	
Price, each	\$0.16
Price, per doz.	1.65
No. 4-A-988. Second grade, length 34 inches.	
Price, each	\$0.06
Price, per doz.	.60


## PICK OR MATTOCK HANDLES

	
No. 4-A-989. First grade, length 36 inches.	
Price, each	\$0.09
Price, per doz.	1.00
No. 4-A-990. Second grade, length 36 inches.	
Price, each	\$0.06
Price, per doz.	.60


## HAMMER HANDLES

	
No. 4-A-991. First grade.	
Length, inches	12 13 14
Price, each	\$0.03 \$0.03 \$0.03
Price, per doz.	.32 .32 .32
No. 4-A-992. Second grade.	
Length, inches	12 13 14
Price, each	\$0.02 \$0.02 \$0.02
Price, per doz.	.18 .18 .18


## MACHINISTS HAMMER HANDLES

	
No. 4-A-993. First grade.	
Length, inches	12 14 16 18 20
Price, each	\$0.04 \$0.04 \$0.04 \$0.05 \$0.05
Price, per doz.	.36 .36 .36 .55 .55
No. 4-A-994. Second grade.	
Length, inches	12 14 16 18 20
Price, each	\$0.02 \$0.02 \$0.02 \$0.02 \$0.02
Price, per doz.	.08 .18 .18 .20 .20


## RIVETING HAMMER HANDLES

	
No. 4-A-995. First grade, length 14 in.	
Price, each	\$0.04
Price, per doz.	.36
No. 4-A-996. Second grade, length 14 inches.	
Price, each	\$0.02
Price, per doz.	.18


## BLACKSMITH HAMMER HANDLES

	
No. 4-A-997. First grade.	
Length, inches	12 14 16 18 20
Price, each	\$0.04 \$0.04 \$0.04 \$0.05 \$0.05
Price, per doz.	.36 .36 .36 .55 .55
No. 4-A-998. Second grade.	
Length, inches	12 14 16 18 20
Price, each	\$0.02 \$0.02 \$0.02 \$0.02 \$0.02
Price, per doz.	.18 .18 .18 .20 .20


## SLEDGE HANDLES

	
No. 4-A-999. First grade.	
Length, in.	24 26 28 30 32 34 36
Each	\$0.07 .07 .08 .09 .09 .10 .10
Dozen	.75 .75 .85 1.00 1.00 1.10 1.10
No. 4-A-1000. Second grade.	
Length, in.	24 26 28 30 32 34 36
Each	\$0.05 .05 .05 .05 .06 .06 .06
Dozen	.45 .48 .50 .55 .57 .60 .60

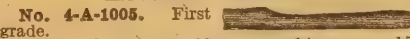
## POST MAUL HANDLES

	
No. 4-A-1001. First grade, length 36 inches.	
Price, each	\$0.09
Price, per doz.	1.00
No. 4-A-1002. Second grade, length 36 inches.	
Price, each	\$0.06
Price, per doz.	.60

## BROAD HATCHET HANDLES

	
No. 4-A-1003. First grade.	
Length, inches	16 17 18
Price, each	\$0.05 \$0.06 \$0.07
Price, per doz.	.50 .60 .68
No. 4-A-1004. Second grade.	
Length, inches	16 17 18
Price, each	\$0.03 \$0.04 \$0.05
Price, per doz.	.30 .42 .50

## HATCHET HANDLES

	
No. 4-A-1005. First grade.	
Length, inches	13 14 15
Price, each	\$0.04 \$0.05 \$0.06
Price, per doz.	.45 .54 .60
No. 4-A-1006. Second grade.	
Length, inches	13 14 15
Price, each	\$0.02 \$0.03 \$0.04
Price, per doz.	.20 .30 .40

## PREMIER HAMMER

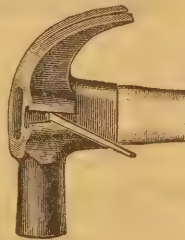


No. 4-A-1086. The highest grade, finest finish, and easily the best hammer on the market. Made of finest grade, crucible steel, octagon poll and full nickel plated finish. Handle is of the finest second growth hickory, polished ebonzonized finish, fitted to head with special steel wedge and will not become loose, absolutely guaranteed to be satisfactory in every respect or money refunded.

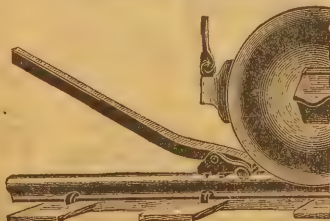
Size No.	1	1½
Weight, not including handle, pounds	1½	1
Price, each	\$0.67	\$0.66

## ADZE-EYE NAIL-HOLDING HAMMER

No. 4-A-1087. Made of finest grade of crucible steel, will hold a nail up to 10D. Handles are of the finest selected second growth hickory, fitted to head with special steel wedge and will not become loose. Weight without handle, 1 pound 3 ounces. Price, with handle \$0.76



## EASY CAR PUSHER



No. 4-A-1011. Will work on any track and under any brake. The strongest and most desirable Car Pusher on the market. The bar is made of steel. The wearing parts can be easily replaced at a trifling cost; it will therefore last a lifetime. Its efficiency is not affected by icy, wet or greasy rail.

Price, each.....\$3.75

## PICKS



No. 4-A-1007. Railroad picks. High grade steel, fully guaranteed. Weight 5 and 6 lbs.

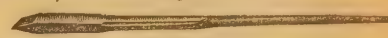
Price, each	\$0.30
Price, per doz.	3.30

No. 4-A-1008. Drifting Picks. High grade steel, fully guaranteed.

Weight, lbs	4	4½	5
Price, each	\$0.35	\$0.37	\$0.39
Price, per doz	3.80	4.00	4.25

## CROWBARS

Made of crucible steel, properly balanced, nicely finished, each bar fully guaranteed.



No. 4-A-1009. Wedge point.



No. 4-A-1010. Pinch point.

Weight, lbs	12	16	20
Price, each	\$0.35	\$0.45	\$0.55

## BELL FACE NAIL HAMMERS



No. 4-A-1088. Made of special crucible steel, properly refined and tempered, fitted with second growth selected hickory handle, properly fitted and guaranteed to give perfect satisfaction.

Size	1	1½	2
Weight, ounces	20	16	13
(not including handle)			
Price, each	\$0.42	\$0.41	\$0.40

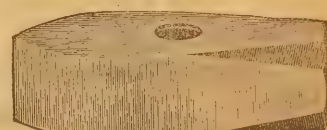
## STANDARD ADZE-EYE NAIL HAMMERS



No. 4-A-1089. Made of excellent grade of steel, properly tempered and fitted with selected hickory handles. The best hammer values ever offered. We recommend these hammers for general work and guarantee they will give good satisfaction.

Size	1	1½	2	3
Weight, ounces	20	16	13	7
(not including handle)				
Price, each	\$0.25	\$0.24	\$0.23	\$0.20

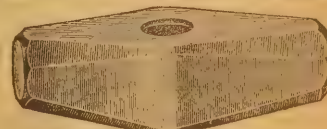
## STONE SLEDGES



No. 4-A-1055. Made of highest grade cast steel, each sledge fully guaranteed. Handles not included.

Weight, pounds	8	10	12	14	16
Price, each	\$0.42	\$0.52	\$0.62	\$0.72	\$0.82

## DRILLING OR STRIKING HAMMERS



No. 4-A-1056. Made of highest grade cast steel. Each hammer fully guaranteed. Handles not included.

Weight, pounds	3	3½	4	4½	5
Price, each	\$0.24	\$0.27	\$0.32	\$0.35	\$0.40



# STONE MASON TOOLS

## SPAULING OR STONE HAMMERS



Made of highest grade cast steel, polished faces. Each hammer fully guaranteed. Handles not included.

No. 4-A-1057. Single Face.

No. 4-A-1058. Double Face.

Weight pounds	Price each
2 1/2	\$.07
3	.30
4	.36
4 1/2	.41
5	.45
6	.48
8	.64
10	.80
12	.90
14	1.05
16	1.20

## MASONS' HAMMERS



No. 4-A-1059. Made of highest grade cast steel, polished faces. Each hammer fully guaranteed. Handles not included.

Weight, pounds. 3 3/4 4 4 1/2 5  
Price, each....\$.030 .035 .040 .045 .050

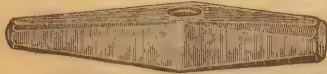
## STONE AXES



No. 4-A-1060. Made of highest grade cast steel. Each ax fully guaranteed. Handles not included.

Weight, pounds 2 4 5 6 8 10  
Price, each....\$.027 .036 .045 .054 .072 .090

## RAILROAD TRACK MAULS



No. 4-A-1061. Made of highest grade cast steel. Each maul fully guaranteed. Handles not included.

Weight, pounds. 5 6 8 10 12  
Price, each....\$.025 .036 .048 .060 .072

## POINTING TROWELS



No. 4-A-1062. Polished steel blade, nicely finished.

Length, inches.....4 5 6  
Price, each....\$.015 .017 .019

## BRICK TROWELS



No. 4-A-1063. Made of highest grade steel, well finished, properly shaped and fully guaranteed.

Length of blade, inches 10 10 1/2 11  
Price, each....\$.034 .037 .039

## CORNER TROWELS

No. 4-A-1064. Length 6 inches, nicely finished, guaranteed tool.  
Price, each....\$.035

## PLASTERING TROWEL



No. 4-A-1065. Made of highest grade steel, well finished, guaranteed in every way to be a first class trowel.

Size, inches.....10 10 1/2 11 12  
Price, each....\$.032 .037 .042 .048

## BRICK CHISELS

No. 4-A-1066. Made of highest grade tool steel, width of cut 4 inches, weight 20 ounces each...\$.20



## TUCK POINTING TOOL



No. 4-A-1067. For pointing or beading mortar or cement.

Size, inches.....3/16 1/4 5/16 3/8 1/2  
Be sure and state size you prefer.

Price, each.....\$.033

## MASONS' TOOL BAGS



No. 4-A-1068. Made of heavy weather-proof canvas. Steel frames, strong leather handles and straps. A first class bag.

Size, inches 20 24  
Price, each.\$1.40 1.73

## CEMENT TOOLS

To meet the requirements of our customers we offer cement tools in both iron and bronze metal. The iron tools are finely made, are extra smooth and very heavily nickel plated, in fact, the very best that it is possible to manufacture, and on account of the heavy nickel plating they are not as easily affected by rust as most of the iron cement tools that are manufactured. The bronze metal tools are the finest it is possible to produce and are absolutely impervious to moisture, therefore will not rust or corrode and will last a life-time.

## SIDEWALK GROOVERS

Curved at both ends.

No. 4-A-1069. Iron sidewalk groover or jointer, nickel plated, 6 inches long, 2 1/2 inches wide, each.....\$.031



No. 4-A-1070. Solid bronze metal sidewalk groover or jointer, 6 inches long, 2 1/2 inches wide, each.....\$.066

## SIDEWALK GROOVERS

Curved at one end.



No. 4-A-1071. Nickel Plated iron sidewalk groover or jointer, 6 inches long, 3 inches wide, price, each.\$0.33

No. 4-A-1072. Solid Bronze Metal sidewalk groover or jointer, 6 inches long, 3 inches wide, price, each.....\$.067

## DRIVEWAY GROOVERS

No. 4-A-1073. Nickel Plated iron driveway groover, 6 inches long, 2 1/2 inches wide, price, each.....\$.036



No. 4-A-1074. Solid Bronze metal driveway groover, 6 inches long, 2 1/2 inches wide, price, each....\$.069

## SIDEWALK EDGERS



No. 4-A-1075. Nickel Plated iron sidewalk edgers, 3/4-inch radius, 6 inches long, 2 1/2 inches wide, price, each.....\$.030

No. 4-A-1076. Solid Bronze metal sidewalk edgers, 3/4-inch radius, 6 inches long, 2 1/2 inches wide, price, each.....\$.065

## SQUARE EDGERS

For making square edges.

No. 4-A-1077. Nickel Plated iron square edgers, 6 inches long, 3 inches wide, price, each.....\$.045



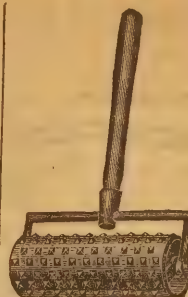
No. 4-A-1078. Solid Bronze metal square edgers, 6 inches long, 3 inches wide, price, each.....\$.080

## INDENTATION ROLLERS

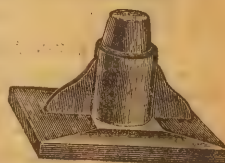
For roughing or indenting sidewalks. Size 4 inches in diameter, 10 inches long.

No. 4-A-1079. Nickel Plated Iron Indentation Roller. Price, each.....\$.250

No. 4-A-1080. Solid Bronze Metal Indentation Roller. Price, each.....\$.595



## TAMPERS



No. 4-A-1081. Made of Gray Cast Iron, Smooth Finish Face, size 8 inches, fitted with a 4-foot hardwood handle, weight 19 pounds. Price, each.....\$.078

## POST HOLE AUGERS AND DIGGERS "EUREKA" POSTHOLE DIGGER

No. 4-A-1082. Made with hardwood handles, 9-inch cast steel blade, properly tempered, malleable iron shanks, length 5 feet, weight 8 1/2 pounds, price, each.\$0.65



## INVINCIBLE POSTHOLE DIGGER

No. 4-A-1083. Blade and shanks are forged from one solid piece of steel, length of blade 9 inches, fitted with hardwood handles, length 5 feet, weight 9 1/2 pounds, price, each.....\$.073



## IWAN POSTHOLE AND WELL AUGER

No. 4-A-1084. Works more rapidly than any other auger made and can be used in any kind of soil, regardless of whether it is wet or dry, very desirable for boring shallow wells, length range 4 to 6 feet, according to diameter of auger.

Size.....6 8  
Price, each....\$1.90 2.00  
9 10  
\$2.15 2.50



## VAUGHN'S POSTHOLE AUGER



No. 4-A-1085. Solid Steel blades.  
Size.....6 7 8 9  
Price, each....\$.057 .058 .059 .060

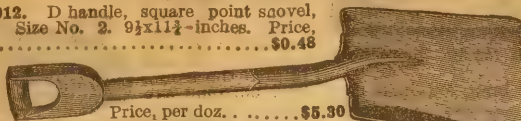


# SHOVELS, SPADES AND SCOOPS

Our line of Shovels, Spades and Scoops are made in an excellent manner and represent the best shovel values on the market. Each shovel is guaranteed to be perfect in construction and made of special selected shovel steel. The handles are thoroughly seasoned and are first grade.

## D HANDLE SQUARE POINT SHOVEL

No. 4-A-1012. D handle, square point shovel, full polished. Size No. 2.  $9\frac{1}{2} \times 11\frac{1}{2}$  inches. Price, each .....\$0.48

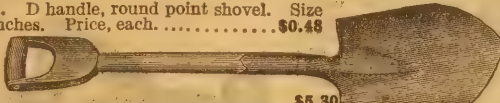


Price, per doz. ....\$5.30

No. 4-A-1013. D handle, square point shovel, full polished. Size No. 8.  $9\frac{1}{2} \times 12\frac{1}{2}$  inches. Price, each .....\$0.55  
Price, per doz. ....6.00

## D HANDLE ROUND POINT SHOVEL

No. 4-A-1014. D handle, round point shovel. Size No. 2.  $9\frac{1}{2} \times 12\frac{1}{2}$  inches. Price, each .....\$0.48

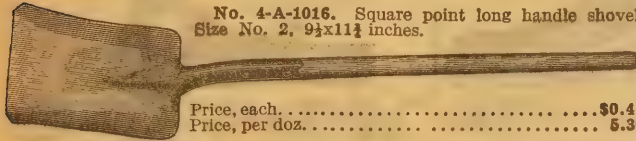


Price, per doz. ....\$5.30

No. 4-A-1015. D Handle, round point shovel. Size No. 3.  $9\frac{1}{2} \times 13\frac{1}{2}$  inches. Price, each .....\$0.55  
Price, per doz. ....6.00

## SQUARE POINT LONG HANDLE SHOVEL

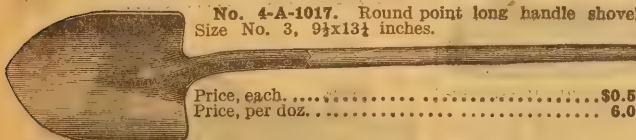
No. 4-A-1016. Square point long handle shovel. Size No. 2.  $9\frac{1}{2} \times 11\frac{1}{2}$  inches.



Price, each. ....\$0.48  
Price, per doz. ....5.30

## ROUND POINT LONG HANDLE SHOVEL

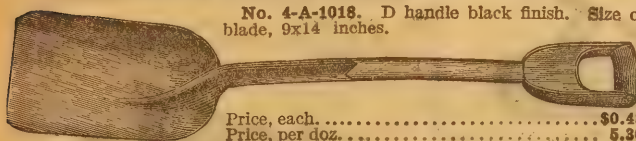
No. 4-A-1017. Round point long handle shovel. Size No. 3.  $9\frac{1}{2} \times 13\frac{1}{2}$  inches.



Price, each. ....\$0.55  
Price, per doz. ....6.00

## D HANDLE BLACK FINISH FURNACE SCOOPS

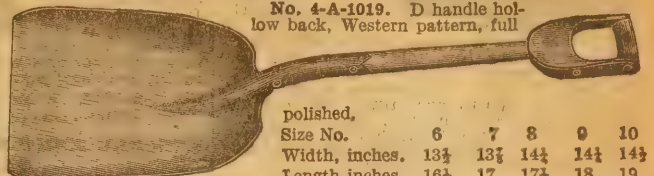
No. 4-A-1018. D handle black finish. Size of blade,  $9 \times 14$  inches.



Price, each. ....\$0.48  
Price, per doz. ....5.30

## D HANDLE HOLLOW BACK GRAIN SCOOP

No. 4-A-1019. D handle hollow back, Western pattern, full



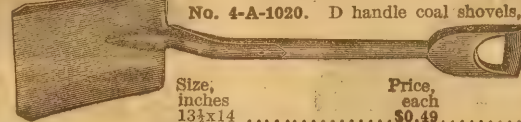
polished.

Size No.	6	7	8	9	10
Width, inches.	13 $\frac{1}{2}$	13 $\frac{1}{2}$	14 $\frac{1}{2}$	14 $\frac{1}{2}$	14 $\frac{1}{2}$
Length, inches.	16 $\frac{1}{2}$	17	17 $\frac{1}{2}$	18	19

Price, each. ....\$0.59 .....\$0.63 .....\$0.66 .....\$0.70 .....\$0.75  
Price, per doz. ....6.40 .....6.80 .....7.00 .....7.35 .....8.00

## D HANDLE COAL SHOVELS

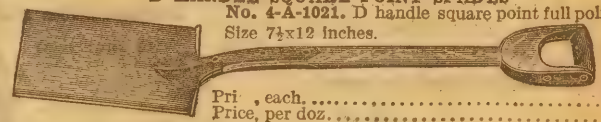
No. 4-A-1020. D handle coal shovels, black finish.



Size, inches	Price, each	Price, per doz.
13 $\frac{1}{2} \times 14$	\$.49	\$5.00
14 $\frac{1}{2} \times 14$	.58	5.75
14 $\frac{1}{2} \times 15$	.58	6.00

## D HANDLE SQUARE POINT SPADES

No. 4-A-1021. D handle square point full polished. Size  $7\frac{1}{2} \times 12$  inches.



Pri , each. ....\$0.60  
Price, per doz. ....6.50

## DRAIN SPADE



No. 4-A-1022. Drain Spade. D handle, length 18 inches full polished. Price, each. ....\$0.90  
Price, per doz. ....9.50

## POST HOLE SPADE

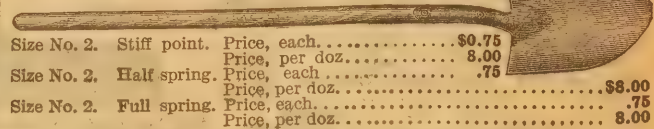


No. 4-A-1023. Post Hole Spade. D handle, size  $6\frac{1}{2} \times 18$  inches, full polished.

Price, each. ....\$0.90  
Price, per doz. ....9.50

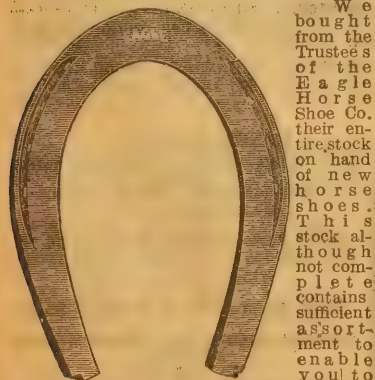
## MINING SHOVEL

No. 4-A-1024. Western Mining Shovel, long handle.



Size No. 2. Stiff point.	Price, each. ....\$0.75
	Price, per doz. ....8.00
Size No. 2. Half spring.	Price, each. ....75
	Price, per doz. ....\$8.00
Size No. 2. Full spring.	Price, each. ....75
	Price, per doz. ....8.00

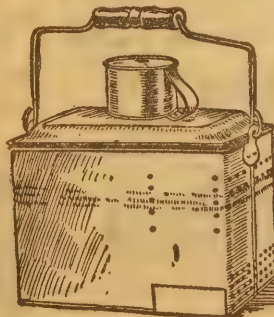
## SPECIAL JOB OF HORSE SHOES.



We bought from the Trustees of the Eagle Horse Shoe Co. their entire stock on hand of new horse shoes. This stock although not complete contains sufficient assortment to enable you to obtain practically anything you may require. All shoes are put up 100 lbs. to the keg. The quality is as good as any shoe on the market. Our stock is fast disappearing and would advise prompt action if interested in the following. We can furnish the following ones:

Extra light front and hinds.  
Light front and hinds.

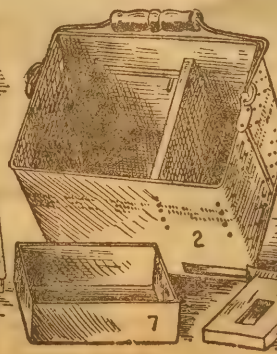
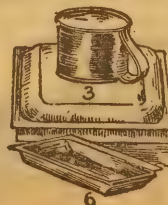
We practically have all sizes from 0 to 7.  
No. 4-A-1677. Price for shoes straight sizes, one kind only to a keg, per 100 lbs. \$3.50  
No. 4-A-1678. Mixed shoes all kinds to a keg, just as they come, price per keg. \$3.00



NO  
MORE  
COLD  
MEALS

## WARM LUNCH AND HOT COFFEE IN FIVE MINUTES

PRICE  
\$0.40  
WORTH  
\$1.00



1 Complete Pail. 2 Body of Pail. 3 Cover. 4 Coffee Can. 5 Alcohol Lamp.  
6 Frying Pan. 7 Tray.

## HOT LUNCH DINNER PAILS

Bought at Underwriters' sale. More or less surface rust. Put up in original crates just as they came from the factory. Packed one dozen to a crate. The illustration shows perfectly just what this pail consists of. It is the only dinner pail so constructed to provide for heating tea or coffee and vegetables. Regular retail price is \$1.00. In single lots each....\$0.25  
In dozen lots each.....\$0.20  
In six dozen lots each.....\$0.15



**ADJUSTABLE IRON BENCH PLANES**

**Corrugated Bottom**  
The cutters are extra heavy, made from the very best tool steel, properly ground and tempered to hold a lasting cutting edge and require less grinding than other plane irons. The body of the plane is made of a fine tough, gray iron, nicely finished. The bottom of the planes are perfectly smooth and true. Handles and knobs are genuine mahogany. The cuts can be easily regulated to cut a shaving of required thickness. Every plane is absolutely guaranteed to be satisfactory or money refunded.

**IRON SMOOTH PLANES**

9 inches long, 2-inch cutter

No. 4-A-1090. Smooth Bottom. Price, each .....\$1.25

No. 4-A-1091. Corrugated Bottom. Price, each .....\$1.25

**IRON FORE PLANE**

18 inches long, 2½-inch cutter

No. 4-A-1094. Smooth Bottom. Price, each .....\$1.80

No. 4-A-1095. Corrugated Bottom. Price, each .....\$1.80

**IRON JACK PLANE**

No. 4-A-1092.

14 inches long, 2-inch cutter.

Smooth Bottom. Price, each .....\$1.45

No. 4-A-1093. Corrugated Bottom. Price, each .....\$1.45



**IRON JOINTER PLANE**  
22 in. long,  
2½-inch  
cutter.

No. 4-A-1096. Smooth Bottom. Price, each .....\$2.10

No. 4-A-1097. Corrugated Bottom. Price, each .....\$2.10

**IRON BLOCK PLANES**

Our line of block planes are carefully made and are in every sense a first class tool. The cutters are made of a high grade tool steel, properly ground and tempered. The surfaces are perfectly smooth and each plane is fully guaranteed.

No. 4-A-1110. Iron Block Plane, 5½ inches long, 1½-inch cutter. Price.....\$0.23



No. 4-A-1111. Iron Block Plane, length 7 inches, 1½-inch cutter. Price...\$0.30

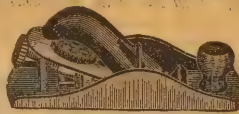
No. 4-A-1112. Adjustable Iron Block Plane, length 5½ inches, 1½-inch cutter. Price...\$0.28



No. 4-A-1113. Adjustable Iron Block Plane, length 7 inches, 1½-inch cutter. Price...\$0.39

**DOUBLE END IRON BLOCK PLANES**

Made with two slots for cutter. By changing the cutter and lever from one end to the other, it can be used to plane into close corners which cannot be reached by an ordinary plane.



No. 4-A-1114. 8 inches long, 1½-inch cutter. Price.....\$0.39

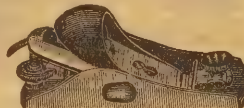
**KNUCKLE JOINT LEVER IRON BLOCK PLANE**

With improved throat, adjustable by means of which the opening for cutter may be closed or enlarged for either coarse or fine work. These planes are also fitted with a new lateral adjustment for cutter. Finely finished with nickel-plated trimmings.

No. 4-A-1115. 6 inches long, 1½-inch cutter. Price.....\$0.75

**ADJUSTABLE IRON BLOCK PLANE**

With improved throat adjustment for fine or coarse work, also lateral adjustment.



No. 4-A-1116. 6 inches long, 1½-inch cutter. Price.....\$0.67

**WOOD BENCH PLANES**

Made of selected seasoned Beech wood, double cutting irons made of fine tool steel, properly tempered and ground polished Lignum Vitae Start. Every plane guaranteed perfect and to be entirely satisfactory.



No. 4-A-1105. Wood Smooth Plane, 8 inches long, with 2-inch double cutting iron. Price .....\$0.56



No. 4-A-1106. Wood Jack Plane, 16 inches long, with 2½-inch double cutting irons. Price .....\$0.65



No. 4-A-1107. Wood Fore Planes, 22 inches long, with 2½-inch double

cutting iron. Price.....\$1.00



No. 4-A-1108. Wood Jointer Plane, 24 inches long, with 2½-inch double cutting iron. Price.....\$1.10

No. 4-A-1109. Wood Jointer Plane, 26 inches long, with 2½-inch double cutting iron. Price.....\$1.14

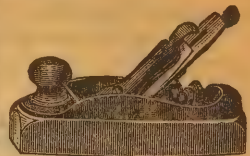
**PLANE GAUGES**

For attaching to planes to guide them in planing bevels or planing square joints without the use of a tri-square or bevel.

No. 4-A-1122. For wood or iron planes, easily attached, nicely finished with nickel-plated trimmings. Price.....\$1.25

**ADJUSTABLE WOOD PLANES WITH IRON TOP**

Cutters are the same as used in our iron bench planes. The best that it is possible to manufacture. The adjustment feature is also the same. The bottoms are made of thoroughly seasoned Beechwood. Every plane is most carefully manufactured and is guaranteed to give entire satisfaction for either hard or soft wood.



No. 4-A-1098. Adjustable wood bottom smooth plane, 8 inches long, 1½-inch cutter. Price.....\$0.75

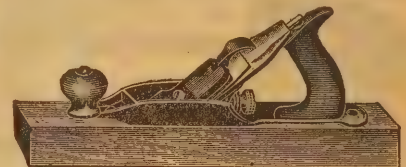


No. 4-A-1099. Adjustable wood bottom smooth plane, 9 inches long, 2-inch cutter. Price, \$0.95



No. 4-A-1100. Adjustable wood bottom Jack Plane, 15 inches long, 2-inch cutter. Price .....\$0.84

No. 4-A-1101. Adjustable wood bottom Jack Plane, 15 inches long, 2½-inch cutter. Price.....\$0.95



No. 4-A-1102. Adjustable wood bottom fore plane, length 20 inches, 2½-inch cutter. Price.....\$1.05



No. 4-A-1103. Adjustable wood bottom Jointer Plane, 24 inches long, 2½-inch cutter. Price.....\$1.15

No. 4-A-1104. Adjustable wood bottom Jointer Plane, 26 inches long, 2½-inch cutter. Price.....\$1.20

**PLANE IRONS**

For wood bottom and iron bench planes.

No. 4-A-1117. Single Irons.

Width inches—Price	1½	2	2½	2½	2½	2½
\$0.18	\$0.20	\$0.22	\$0.24	\$0.26	\$0.28	\$0.30

No. 4-A-1118. Double Plane Irons.

Width inches—Price	1½	2	2½	2½	2½	2½
\$0.30	\$0.33	\$0.34	\$0.37	\$0.39	\$0.42	\$0.45

**PLANE IRONS FOR IRON BLOCK PLANES**

No. 4-A-1119.

Width inches	1½	1½	Price
\$0.12	\$0.15		



No. 4-A-1123. For wood planes only, nicely finished with nickel-plated trimmings. Price .....\$0.67

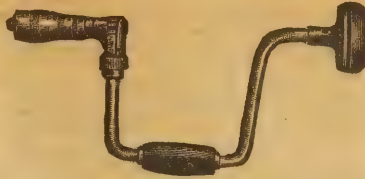


# BIT BRACES



No. 4-A-1129. The best made bit brace ever offered at anything like the price. The holding parts are made of the best semi-steel castings with cocobola head and handle. Steel sweep finely finished and nickel plated.

Sweep, inches	Price, each
8	\$0.37
10	.41
12	.45



No. 4-A-1130. A fine ratchet brace at less than half the usual price. Has right and left two-pawl ratchets. Holding parts are made of the best semi-steel castings with hardened jaws. Polished hardwood head and handle.  $\frac{1}{2}$ -inch steel sweep, finely finished and nickel-plated.

Sweep, inches	Price, each
10	\$0.56
12	.60



No. 4-A-1131. Ratchet bit brace, polished, cocobola head and handle. Holding parts made of the best cast steel, jaws are hardened steel  $\frac{7}{16}$ -inch sweep, extra fine finish and full nickel plated.

Sweep, inches	Price, each
10	\$0.75
12	.85



Sweep, 8 in. Price, each, **\$1.30**  
Sweep, 10 in. Price, each, **1.35**  
Sweep, 12 in. Price, each, **1.50**

## PREMIER BALL BEARING BIT BRACE

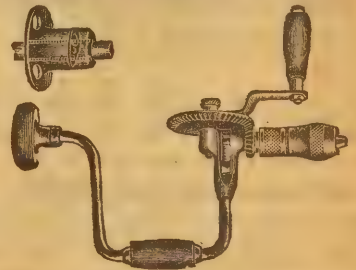
No. 4-A-1133. The only brace manufactured with a chuck welded solid into the head and cannot become loose or broken. We guarantee to replace without cost any Premier ratchet brace that proves in any way defective, or if not satisfactory can be returned at our expense and your money will be immediately refunded. The Chucks are made of special tool steel, spring tempered and being welded into the head cannot become loose or broken. The Sweep is made of  $\frac{1}{2}$ -inch steel bent cold and is the strongest possible to manufacture. The Head and Handles are made of polished Lignum Vitae with special steel ball bearings. The chuck will take straight round shank drills as well as regular auger bits. The Sleeve is of extra length finely finished. All metal parts are full nickel plated. Not only is this the finest brace made, it is the strongest and best brace possible to produce and is recommended for the use of the most critical mechanic.

## SPOFFORD BRACES

No. 4-A-1135. Solid drop forged cast steel with polished cocobola head and handle. Holds square shank drills and bits, nickel plated finish.

Sweep, inches	Price, each
8	\$0.67
10	.74
12	.83
14	.94

## COMBINATION DRILL AND BRACE



No. 4-A-1134. Has ball bearing head. Sweep is made of cold rolled steel alligator jaws, forged from steel, will hold straight round shank drills as well as regular drill bits. By removing the hand drill you have a regular ball bearing ratchet bit brace with polished cocobola head and handle full nickel plated finish. Price .....\$2.35

## PLUMBS AND LEVELS

Extreme care is taken in the manufacture of our plumbs and levels. Each instrument is carefully tested as to its accuracy before it leaves the hands of the manufacturer. The wood work is thoroughly seasoned and hand polished. We offer this line to those who want the best value possible to secure and instruments that are accurate and accomplish the purpose for which they are designed. Absolute satisfaction is guaranteed or money refunded.



No. 4-A-1220. Polished Cherry Plumb and Level, nickel plated brass arch top plate, two side views, proved glasses, length 26, 28 and 30 inches. Price.....\$0.45



No. 4-A-1221. Polished Cherry Patent adjustable plumb and level, brass arch top plate, brass ends, two brass lipped side views, proved glasses, length 26, 28 and 30 inches. Price, each.....\$0.75



No. 4-A-1223. Solid polished Cherry Patent Adjustable plumb and level with graduated adjustments to work at any level or elevation required. Especially desirable and a great aid in cutting rafters or lumber to be set at an angle. Has brass arch top plates, brass lipped side views and heavy brass ends, length 28 inches. Price.....\$1.25



No. 4-A-1224. Solid Mahogany plumb and level. The best plumb and level that it is possible to produce. Made with extra heavy brass trimmings, has brass arch top plate, brass lipped side views and heavy brass ends. A better level cannot possibly be manufactured. Length 26, 28 and 30 inches. Price.....\$2.25



No. 4-A-1222. Solid Polished Mahogany Patent Adjustable plumb and level, brass arch top plate, two brass lipped side views, brass ends, proved glasses, finely finished and a first class instrument, lengths 26, 28 and 30 inches. Price, each.....\$1.20  
**MASON'S ADJUSTABLE PLUMB AND LEVEL**



No. 4-A-1225. Polished Cherry brass arch plate, two side views and constructed so that it can be used with plumb bob and line. Price.....\$1.05

## LEVEL SIGHTS



No. 4-A-1226. Can be attached to any wood level. The user has an accurate means of leveling from one given point to another at long distance. Price, each.....\$0.55  
No. 4-A-1229. Level sight for iron levels. Price, each.....\$0.50

## ADJUSTABLE IRON PLUMB AND LEVEL



No. 4-A-1226. With a double plumb, Japanese finish, with nickel plated trimmings, guaranteed accurate.  
Length, sizes, inches 12 18 24  
Price, each.....\$1.20.....\$1.35.....\$1.50

## POCKET LEVELS



No. 4-A-1227. Can be readily attached to steel square or straight edge iron body. brass top plate, proved glasses. Price....\$0.08







**PREMIER BEVELED EDGE  
SOCKET FIRMER  
CHISELS**

No. 4-A-1177. Leather tipped handles. Made of the best tool steel, properly oil tempered, patent ground and honed; will hold a cutting edge longer than any other chisel. Handles are made of selected tough hickory and are warranted in every particular.

Size, inches.	Price, each.
$\frac{1}{8}$	27c
$\frac{1}{4}$	28c
$\frac{3}{8}$	30c
$\frac{1}{2}$	32c
$\frac{5}{8}$	34c
$\frac{3}{4}$	36c
$\frac{7}{8}$	38c
1	40c
$1\frac{1}{4}$	42c
$1\frac{1}{2}$	44c
$1\frac{3}{4}$	46c
2	48c

**PREMIER BEVEL EDGE SOCKET FRAMING  
CHISELS**

No. 4-A-1186. Made of the best tool steel, properly tempered and finished. Handles are special selected white hickory with ferrule on end to prevent splitting. Size, inch  $\frac{3}{8}$   $\frac{1}{2}$   $\frac{3}{4}$  1  $1\frac{1}{4}$   $1\frac{1}{2}$   $1\frac{3}{4}$  2. Price, each 27c 30c 33c 36c 39c 42c 45c 48c

**PREMIER BEVEL EDGE FRAMING  
CHISEL SETS**

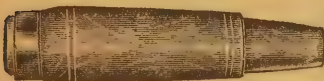
No. 4-A-1187. Set of six, consisting of one each size  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , 1,  $1\frac{1}{4}$ , 2, put up in neat hardwood box, price per set...\$2.60

No. 4-A-1188. Set of eight, put up in neat hardwood box, price per set...\$3.45

**PERFECTION PLAIN EDGE SOCKET  
FIRMER CHISEL**

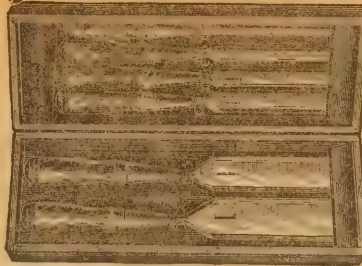
No. 4-A-1181. With leather tipped handles. We offer these chisels to meet the requirements of those who are not mechanics, but at the same time, have use for good tools. They will compare favorably with most of the best grade chisels on the market. They are made of a special tool steel, carefully and properly tempered, patent ground and hand honed. The handle is strictly first grade selected hickory and each tool in every way warranted. Your money back if not satisfied.

Size, inches.	Price, each.
$\frac{1}{4}$	19c
$\frac{1}{2}$	20c
$\frac{3}{4}$	21c
$\frac{1}{2}$	22c
$\frac{5}{8}$	23c
$\frac{3}{4}$	25c
$\frac{7}{8}$	26c
1	30c
$1\frac{1}{4}$	31c
$1\frac{1}{2}$	33c
$1\frac{3}{4}$	36c
2	39c

**HICKORY CHISEL HANDLES**

No. 4-A-1197. Socket firmer chisel handles, leather tipped. Price, each... 4c  
Price, per dozen...35c

No. 4-A-1198. Socket framing chisel handles, with malleable iron ring. Price, each... 3c  
Price, per dozen...27c

**PREMIER CHISEL SETS.**

Leather tipped, beveled socket firmer chisels, patent ground and honed.

No. 4-A-1178. Set of six, consisting of one each size  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , 1,  $1\frac{1}{4}$  and 2-inch, put up in neat wood boxes. Price, per set...\$2.60

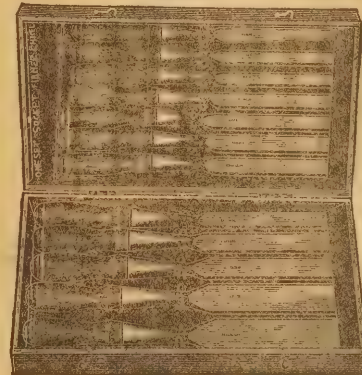
No. 4-A-1179. Set of nine, consisting of one each size  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ , 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$ , 2-inch, put up in neat wood box. Price, per set...\$3.70

No. 4-A-1180. Set of twelve, consisting of one each size  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ , 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$ , 2-inch. Put up in neat hardwood box. Price, per set, \$4.75

**SOCKET CORNER CHISELS.**

No. 4-A-1185. Made of the best tool steel. Patent ground and sharpened.

Size, inch	Price, each
$\frac{3}{8}$	55c
1	65c

**PERFECTION SOCKET FIRMER CHISEL  
SETS**

No. 4-A-1182. Set of six, consists of one each size  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , 1,  $1\frac{1}{4}$ , 2-inch. Put up in neat hardwood box. Price per set...\$1.85

No. 4-A-1183. Set of nine, consists of one each size  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ , 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$ , 2-inch. Put up in neat hardwood box. Price per set...\$2.65

No. 4-A-1184. Set of twelve, consists of one each  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ , 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$ , 2-inch. Put up in neat hardwood box. Price per set...\$3.35

**DRAWING KNIVES**

No. 4-A-1199. Carpenters drawing knives, made from highest grade crucible cast steel, properly tempered, an excellent cutting tool, polished hardwood handles.

Size, inches	Price, each
8	40c
10	45c
12	50c

**FOLDING HANDLE DRAWING KNIVES**

No. 4-A-1200. Made from highest grade crucible cast steel, finely finished, guaranteed to give full satisfaction.

Size, inches	Price, each
8	72c
10	80c
12	90c

**OIL STONES**

No. 4-A-1189. White Washita oil stones, free from grit and hard spots. This is a fast cutting stone, suitable for carpenters and wood workers' tools, not mounted. Weight approximate lbs. 1  $1\frac{1}{2}$   
Price, each...24c 36c

No. 4-A-1190. Ruby Red Washita oil stones, smooth texture, free from grit or hard spots, suitable for any tool. Not mounted. Weight, approximate lbs. 1  $1\frac{1}{2}$   
Price, each...36c 54c

No. 4-A-1191. Soft Arkansas oil stones. Used by wood workers, tool and instrument makers and others requiring extremely smooth cutting stones. Guaranteed to be the best stone on the market and will not injure the most delicate instruments. Not mounted.

Weight, approximate lbs.	Price, each
1	1 $1\frac{1}{2}$
	90c \$1.32

**OIL STONES MOUNTED**

No. 4-A-1192. Ruby Red Washita oil stones. Size of stone, 5x2. Weight, 1 lb. Price...42c

No. 4-A-1193. Size of stone, 6x2. Weight,  $1\frac{1}{4}$  lbs. Price...50c

**WHITE WASHITA OIL STONES.**

No. 4-A-1194. Size of stone, 5x2 inches. Weight, 1 lb. Price...43c

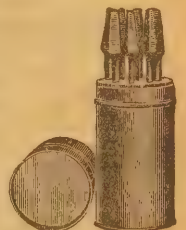
No. 4-A-1195. Size of stone, 7x2 inches. Weight,  $1\frac{1}{4}$  pounds. Price...55c

**WHITE WASHITA SLIPS**

No. 4-A-1196. With round edges, free from grit, extra high quality. Lengths vary from  $3\frac{1}{2}$  to 5 inches. Weight about 6 ounces. Price, each...15c

**BIT STOCK DRILL  
SETS**

No. 4-A-1174. Consists of nine bit stock drills, one each of the following sizes: 1-16, 3-32,  $\frac{1}{8}$ , 5-32, 3-16, 7-32,  $\frac{1}{4}$ , 5-16,  $\frac{3}{8}$ -inch. Price per set...73c

**GERMAN GIMLET BITS**

No. 4-A-1175. The finest bits manufactured; made of special high grade steel and finely tempered, especially adapted to the use of those who work in hard woods. Sizes, 2-32, 3-32, 4-32, 5-32, 6-32, 7-32, 8-32, 10-32. Be sure to state size wanted. Price, each... 5c  
Price, per dozen...50c

No. 4-A-1162. Price, per set of eight...35c



**INDESTRUCTIBLE SCREW DRIVERS**

No. 4-A-1208. Made specially for mechanics' use and is the best screw driver on the market. Blades are made from the very best tool steel, carefully tempered, extending through the handles, and are metal capped, guaranteed not to become loose or out of handle. We will replace any of our indestructible screw drivers without cost that fail to give the utmost satisfaction.

Length blade, inches 3 4 5 6 8 10 12  
Price, each... 14c 17c 20c 25c 30c 40c 50c

**STANDARD SCREW DRIVERS**

No. 4-A-1209. Generally known as the Champion pattern. Blades are made of the finest crucible steel and are carefully fitted to handle with steel ferrules. The handle is cherry finished. A first class tool and warranted to give excellent satisfaction.

Length of blade, inches 3 4 5 6 8 10 12  
Price, each... 7c 8c 10c 13c 15c 17c 20c

**RATCHET SCREW DRIVER**

No. 4-A-1210. The highest grade ratchet screw driver manufactured. Blades made from tool steel, oil tempered. The ratchet teeth are cut directly into the stem of the blade. The ratchet mechanism is made of specially tempered tool steel. Change from right to left is instantly made.

Length of blade, inches 4 5 6 8 10  
Price, each... 35c 40c 44c 50c 55c

**REVERSIBLE, AUTOMATIC, INTER-CHANGEABLE SCREW DRIVER**

No. 4-A-1211. Has two separate spirals, drives and draws screws automatically. Furnished with three interchangeable blades, length with one spiral out, 16 1/2 inches. Price, each... \$1.05

**SCREW DRIVER BITS**

No. 4-A-1207. Made from high grade crucible steel, carefully tempered and finished.

Size, inches 4 1/2 5 6 6 1/2  
Price, each... 15c 16c 17c 18c

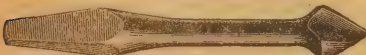
**NAIL SETS**

No. 4-A-1201. Knurled nail sets, specially tempered at both ends to withstand hard service, cup points. Size, inch, 2-32, 3-32, 4-32, 5-32. Price, each... 5c  
Price per dozen... 55c

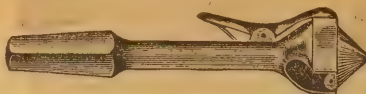
No. 4-A-1202. Price per set of four, one of each size... 18c

**ROSE COUNTERSINKS.**

No. 4-A-1203. For metal. Forged from high grade tool steel, properly tempered.  
Size, inch. 1/2 5/8  
Price, each... 16c 17c

**SNAIL COUNTERSINKS**

No. 4-A-1204. For wood workers, forged from high grade tool steel, properly tempered.  
Size, inch. 1/2 5/8  
Price, each... 15c 16c

**REVERSIBLE COUNTERSINK AND DOWEL POINTER**

No. 4-A-1205. Barber patent. Cutting head is reversible and can be used for sharpening pins or dowels; cutters are made of fine tool steel and will hold a fine, keen cutting edge. A very practical tool. Price, each... 15c

**COUNTERSINKS WITH GAUGE**

No. 4-A-1206. For wood workers. Gauge makes a positive stop, made of crucible steel, nickel plated. Price, each... 20c

**HOLLOW HANDLE TOOL SETS**

No. 4-A-1212. With cocobola handle. 10 hand forged, finely tempered tools, highly finished and fully warranted. Price... 29c



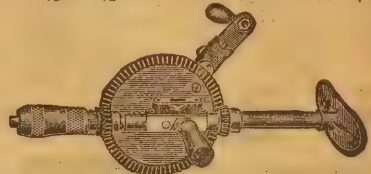
No. 4-A-1213. A high grade hollow handle tool set, finely finished improved nut and chuck, polished cocobola handle. Set consists of 9 superior tools, which are oil tempered and finely finished. Price... 67c



No. 4-A-1214. The finest hollow handle tool set manufactured. Set consists of 11 guaranteed tools. Chuck is finely nickel plated and has a positive grip. Handle is made of cocobola, highly polished. The best set ever offered. Price... \$1.00

**BREAST DRILL**

No. 4-A-1215. Ball bearing breast drill, changeable gear, two speeds from even to about 3 to 1, cut gears, adjustable cranks, chuck and stock are nickel plated, alligator jaws, will hold square and round shank, drills, 1/8 to 1/2 inch. Price, each... \$2.10



No. 4-A-1216. Double geared breast drill, ball bearing, with lever attachment, speed 4 1/2 to 1 cut gears, polished hardwood handles, extension crank, nickel plated stock and chuck, alligator jaws to hold square and round shank drills from 1/8 to 1/2 inch. Price... \$3.10

**STEEL FRAME HAND DRILL**

No. 4-A-1217. All steel nickel plated frame with hollow cocobola handle, cut gears, 3 jaw nickel plated knurled chuck, takes drill to 5-32 inch, complete, with 8 drills, 1-16 to 11-64 inch. Price... \$1.33

**PERFECTION HAND DRILL**

No. 4-A-1218. Malleable iron frame, japanned finish, hollow polished wood handle, nickel plated cut gears held with steel guards, knurled nickel plated chuck, complete with 8 drill points, 1-16 to 11-64 inches. Price... \$1.03

**CARPENTERS' STEEL SQUARE**

Every square properly made, well finished and accurate. The marking is distinct.

No. 4-A-1230. Steel square No. 7, nicely finished, size of body 24x2 inches, tongue 16x1 1/2 inch, both sides marked 1/2 and 1 inch, Essex board measure with feet and inches. Price, each... \$0.40

No. 4-A-1231. Steel square No. 3, polished, size of body 24x2 inches, size of tongue 16x1 1/2 inches, face spaced 1/4, 1/2, 3/4 and 1 inch. Brace measure and Essex board measure. Price each... .48

No. 4-A-1232. Steel square No. 3. Blue finish, with the enamel graduations. Size of body 24x2 inches, size of tongue 16x1 1/2 inches. Face spaced 1/4, 1/2, 3/4 and 1 inch, back 1/4 and 1/2 inch. Brass and Essex board measure. Price, each... .75

No. 4-A-1233. Steel square, polished No. 100, size of body 24x2, size of tongue 16x1 1/2 inches, face spaced 1/4, 1/2, 3/4 and 1 inch, back 1/4 and 1/2 inch. Has brace measure and rafter table. Price each... .70

No. 4-A-1234. Royal, copper plated steel square, No. 100, R. C. R. The plating is extra heavy and prevents rust. The figures and graduations are in white enamel. Size of body 24x2 inches, size of tongue 16x1 1/2 inches, face spaced 1/4, 1/2, 3/4 and 1 inch, back 1/4 and 1/2 inch, has brace measure and rafter table. Price... \$1.50



## TRY SQUARE

No. 4-A-1235. Rosewood stock, brass face, steel blade, with graduations.

Size Inches	Price Each	Size Inches	Price Each
4 1/2	\$0.14	7 1/2	\$0.19
6	.18	8	.25

## MITRE SQUARE

No. 4-A-1236. Can be used as a try-square. Rosewood stock, brass face, steel blade, graduated by eighths.

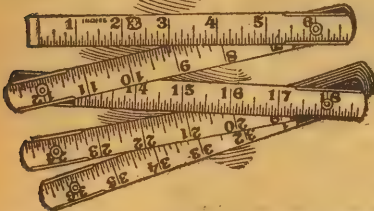
Size, inches	4 1/2	6	7 1/2	9
Price, each	\$0.12	\$0.22	\$0.28	\$0.32

## SLIDING T BEVEL SQUARE

No. 4-A-1237. Rosewood stock, brass tipped steel blade.

Length, inches	6	8
Price, each	\$0.16	\$0.18
Length, inches	10	12
Price, each	\$0.20	\$0.22

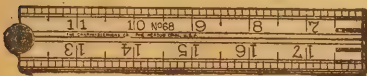
## FOLDING RULES



No. 4-A-1233. Yellow Finish, Black Figures. Made with extra strong hinge joints. Ends are brass tipped and graduations are plain.

Length, feet	3	4	5	6	8
Price, each	\$0.13	\$0.19	\$0.24	\$0.28	\$0.36

## BOXWOOD RULES



No. 4-A-1239. Two feet, 4 fold, with round joint and middle plate, graduations eighths and sixteenths. Price, each.....\$0.08

No. 4-A-1240. Two foot, 4 fold, square joint and edge plate, width 1 inch, graduations in eighths, tenths and sixteenths, and sixteenths with drafting scale. Price, each.....\$0.14



No. 4-A-1241. Two foot, 4 fold, boxwood rule, square joint and edge plates, half brass bound graduations in eighths, tenths, twelfths and sixteenths, with drafting scale. Price, each.....\$0.25

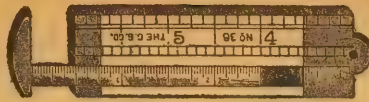
No. 4-A-1242. Two foot, 4 fold, boxwood rule, square joints and edge plates, full brass bound, graduations in eighths, tenths, twelfths and sixteenths, with drafting scale. Price, each.....\$0.30



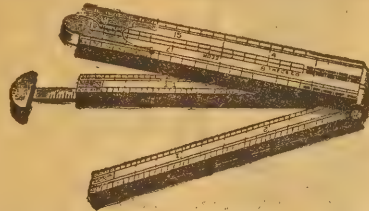
No. 4-A-1243. Double arch joint, 2 foot, 4 fold, boxwood rule, full brass bound graduations in eighths, tenths and sixteenths, with drafting scale, width 1 1/2 inches. Price, each.....\$0.45



No. 4-A-1244. Architect's rule, 2 foot, 4 fold, inside edge beveled, arch joints, graduations in eighths, tenths, twelfths and sixteenths, with drafting scale, width 1 inch. Price, each.....\$0.29



No. 4-A-1245. Caliper rule, 6 inches, 2 fold, square joint, graduations in eighths, tenths, twelfths and sixteenths, width 1 inch. Price.....\$0.16



No. 4-A-1246. Caliper rule, 1 foot, four fold, arch joint, full brass bound graduations in eighths, tenths, twelfths and sixteenths, width 1 inch. Price, each.....\$0.35

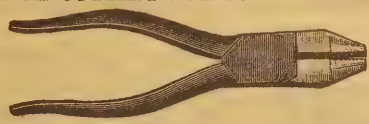
## FLAT NOSE BOX JOINT PLIERS



No. 4-A-1254. High grade steel, highly tempered, polished jaws.

Length, inches	4	5	6
Price, each	\$0.18	\$0.21	\$0.26

## SIDE CUTTING BOX JOINT PLIERS



No. 4-A-1255. High grade tool steel, raised cutter polished jaws, strictly first-class tool.

Size, inches	5	6	7	8
Price, each	\$0.35	\$0.43	\$0.52	\$0.67

## END CUTTING NIPPERS LAP JOINT



No. 4-A-1256. First-class cutter, made of high grade steel, bright finish.

Size, inches	4	5	6
Price, each	\$0.18	\$0.23	\$0.28

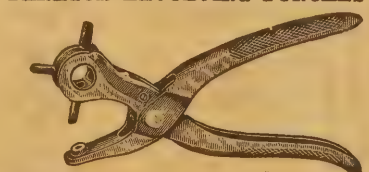
## REVOLVING SPRING PUNCHES



No. 4-A-1257. 4 Tubes each different size, made of cast steel, nicely finished. Price each.....\$0.37

6 Tubes each different size, made of cast steel, nicely finished. Price each.....\$0.45

## PARAGON REVOLVING PUNCHES



No. 4-A-1259. Nickel-plated finish, 4 tubes, Nos. 1, 3, 5, 7 length, 8 inches. Price each.....\$0.67

No. 4-A-1260. Extra tubes for Paragon punches, sizes 1, 3, 5, 7. Price each.....\$0.12

## COMBINATION PLIERS



No. 4-A-1261. Combination Burner wire and side cutting pliers. End of one handle can be used as a screw driver. The other is pointed and can be used as a reamer. Made of high grade tool steel, finely tempered.

Size, inches	6	8
Price, each	\$0.45	\$0.60

## UTILITY GAS PLIER AND WIRE CUTTER



No. 4-A-1262. Drop forged tempered steel, full polished finish, a most convenient tool for ordinary work. Price each.....\$0.14

## LODI FLAT NOSE PLIERS

No. 4-A-1263.

Lodi flat nose, all steel pliers, strongly made and guaranteed to be a very satisfactory tool for ordinary use, polished finish.

Size, inches	4	5	6
Price, each	\$0.06	\$0.08	\$0.10

## LODI CUTTING PLIERS

No. 4-A-1264.

Lodi Cutting Pliers, all steel and suitable for cutting soft wire, polished finish.

Size, inches	5	6
Price, each	\$0.12	\$0.16

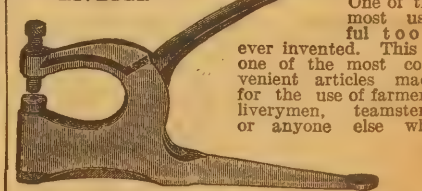
## WASHINGTON'S HATCHET



No. 4-A-1247. Convenience! Utility! Simplicity! Compactness! The greatest combination tool ever invented. Seventeen tools in one, consisting of hammer, hatchet, nail puller, wire cutter, gas plier, leather punch, four contact grip, wire clamp, cutting nippers, staple pullers, screw driver, pliers, wrench, wire gauge, box opener, pinchers, knot tier. This Tool is made of the best drop forged steel, and is first class in every respect. It is so perfectly arranged that each of the seventeen Tools it combines works as well as if made alone. It is invaluable in the home, the office and the work shop, and to the automobilist it provides all the tools he needs, and occupies little space.

Weight 2 1/2 lbs. Price, each.....\$0.60

## HANDY HARNESS RIVETER



No. 4-A-1248. One of the most useful tools ever invented. This is one of the most convenient articles made for the use of farmers, livermen, teamsters, or anyone else who

has any riveting to do. It is strongly built of the best cast iron and is most economical article to have around the stable. It will save you many dollars on harness repair bills during the year, uses a hollow tubular rivet.

Weight 3 lbs. Price, each.....\$0.28

## JAPANNED TUBULAR RIVETS

No. 4-A-1249. For use with Handy Harness Riveter. Put up in boxes 50 assorted rivets, sizes 1/16 to 1/2.

Price, per single box	\$0.06
Price, per dozen boxes	.60



## CARPENTERS' PINCHERS



No. 4-A-1250. Made of high grade tool steel, properly tempered and nicely finished.  
Lengths, inches . . . 8 . . . 10 . . . 12  
Price, each . . . \$0.20 . . . \$0.23 . . . \$0.27

## COMBINATION FENCING PLIER



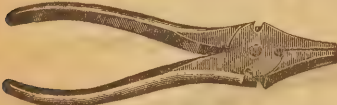
No. 4-A-1251. Drives and pulls staples, cuts splices and stretches wire, will cut a double strand of barb wire. The best combination fencing plier manufactured. Every tool guaranteed to give perfect satisfaction. Length 11 inches.  
Price, each . . . \$0.76

## ELM CITY FENCING PLIER, NEW MODEL



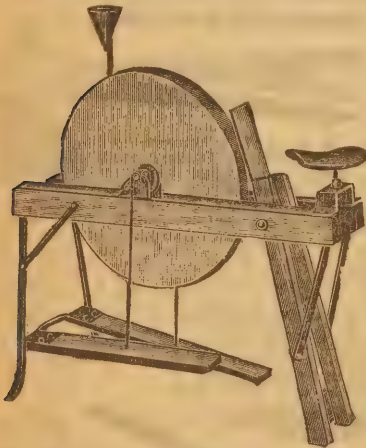
No. 4-A-1252. Combination staple puller, wire cutter, wire splicer, hammer and plier, will cut up to No. 7 wire.  
Price, each . . . \$0.78

## BUTTON WIRE CUTTING PLIER



No. 4-A-1253. Made of extra quality steel, finely tempered, polished jaws.  
Size, inches . . . 6 . . . 8 . . . 10  
Price, each . . . \$0.16 . . . \$0.23 . . . \$0.28

## BALL BEARING GRINDSTONES



No. 4-A-1265. Combination steel and wood frame. The most rigid and durable machine manufactured. Full ball bearing journals cause it to run very easy. One man can operate it and grind at the same time. The axles are of steel, accurately centered. Fitted with combination water guard and rest. The stones are the best selected Berea Grit. The frame is nicely finished.  
Size No. . . . . 1 . . . 2 . . . 3  
Weight of stones, pounds. 90 to 70 to 40 to 110 80 50  
Price each . . . \$3.20 \$3.05 \$2.85



## NAIL PULLERS

No. 4-A-1270. Jaws forged from fine quality steel, hardened and oil tempered, every puller tested and fully warranted. Size 18 inches. Price each . . . \$0.50

## PREMIER STEEL FRAME BALL BEARING GRINDSTONES



No. 4-A-1266. The strongest and easiest running grindstones on the market. Frame is constructed from angle steel, extra well braced and strongly reinforced, doing away with the vibration that is general in other machines. Ball bearings on journals and cups, making four sets of the highest grade ball bearings ever put into a grindstone. Axles are made of steel accurately centered. Stone is the best selected Berea Grit 20 to 22 inches diameter, 2 to 2½ inches thick and weigh on an average 60 lbs. The frame and stone are shipped complete, carefully crated. Face of stone is protected by a wood strip to prevent chipping in transit. Weight, stone and frame, 85 pounds. Price each . . . \$2.95

## BALL BEARING GRINDSTONE FIXTURES



No. 4-A-1267. Made with ball bearing journals and will support stones up to 30 inches diameter and 2 to 3 inches thick. The axles are solid steel and the ball bearings are the best that is possible to produce. Fixtures can be used on any wood frame and save half the labor of grinding. Price, per set . . . \$0.58

## ROLLER BEARING GRINDSTONE FIXTURES



No. 4-A-1268. Adjustable for stones of different thicknesses. The use of these fixtures will prevent the splitting of grindstones, which is often the case when wooden wedges or axles are used.  
Length inches . . . 15 . . . 17 . . . 19 . . . 21  
For stone pounds. 40 60 80 100  
Price each . . . \$0.28 \$0.23 \$0.30 \$0.34

## BALL BEARING FAMILY GRINDSTONES



No. 4-A-1269. Stones are carefully selected, rubbed finish and cut rapidly, mounted on solid steel axles, accurately centered and running in steel ball bearing journals, the best and easiest running family grindstone manufactured.  
Size inches . . . . . 8 . . . 10  
Price each . . . \$0.85 \$1.15

## WAREHOUSE TRUCKS



No. 4-A-1271. Warehouse trucks. This truck is intended for all class of work, capacity 1000 pounds. It is made of second growth white oak. The handles are well proportioned, being 46 inches long by 1½ in. x 1½ in. We wish to call your particular attention to the extra strong cross braces. There are 4 pieces used in the construction of this truck instead of 3 as used in all other trucks; three of the cross pieces are tensioned, which you will not find in other trucks of this size. Axles ½ in. square, journals turned with a ½ inch bolt, passing through handle, cross bar and axle, thus making it impossible for the truck to spread. Wheels 6 inches in diameter, extra heavy nose, width of nose 12 inches, well ironed, nicely finished and varnished.  
Price, each . . . \$1.75

## BAG HOLDING TRUCK



No. 4-A-1272. The only bag-holding truck that holds all kinds of sacks. The only easel truck manufactured with straight axle falling directly on the bearings. It is indispensable on the farm, store and warehouse. The bag holder is so made that it will not tear the sack and is adjustable for different lengths of sacks. Its construction is very simple and any one can operate it. It is made of solid oak, well ironed. While using the holder the wheels are set back, giving a good brace and making it self sustaining. When not in use the holder can be removed and the truck used for ordinary work. The handles are well proportioned and 46 inches long by 1½ x 1½ inches. Width of nose, 12 inches. Price . . . \$2.75

## LAWN ROLLERS



No. 4-A-1273. This roller is made of solid concrete and formed under immense pressure, smoothly finished and indestructible, and superior to iron rollers. Weight about 300 pounds, size of roller 14 x 24 inches, fitted with a hardwood handle, well ironed, shipped direct from factory, Central Ohio. Price . . . \$3.95

## ZINC OILERS

No. 4-A-1420. Made from zinc with double seam bowls. Guaranteed not to leak. The spout screw has a cork ground thread which causes it to work easily. The opening being large, it can be easily filled. The tube of the oiler running down through and inside of the screw prevents the tube from breaking off, as frequently happens with oilers that depend only on solder to hold the tubes in place.



Size No.	Diameter	Length of Spout	Price each	Price per Dozen
1	2½ ins.	2 ins.	\$0.05	\$0.55
2	3 3-16 ins.	4 ins.	.07	.70
3	3½ ins.	4 ins.	.08	.80
5	4½ ins.	5 ins.	.12	1.25
6	4½ ins.	5 ins.	.15	1.60

## SEAMLESS COPPER PLATED STEEL OILERS

No. 4-A-1421. These oilers are heavily plated and will give equally as good service as the all copper oiler. Made with spring bowls. The 9-inch nozzles are bent; the other sizes are straight.



Size No.	Diameter	Capacity	Nozzle	Price Each
13.	3½ ins.	5 oz.	3 inch straight	\$0.12
14	3½ ins.	5 oz.	9 inch bent	.16
14-A	3½ ins.	½ pt.	5 inch straight	.18
14-B	3½ ins.	½ pt.	9 inch bent	.30

## MACHINE OILERS

Tin machine oiler, 4½-inch diameter, bent spout. Price, each . . . \$4c

Tin machine oiler, 4½-inch diameter, straight spout. Price, each . . . \$4c

No. 4-A-1423. Seamless steel machine oiler, copper plated both inside and out, 5-inch straight nozzle. Price, each 13c





# STORE DOOR SETS

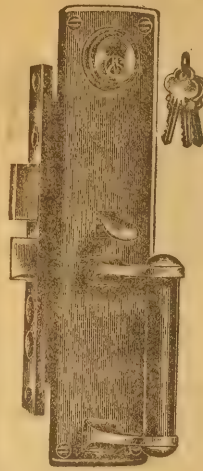
## Heavy Genuine Cast Bronze, Antique Copper Finish, Cylinder Store Door Handle and Lock.

No. 4-A-1548 — This is a highly ornamental design, finely made and is suitable for any store door. Set comprises One Mortise Cylinder Store Door Lock, size 5x3½ inches, 5 pin tumbler, 2 handsomely finished handles and plates, one for each side of the door, size of plate 3½x17½ inches, 3 German silver keys, reversible for right or left hand doors. Packed complete with screws. Price, per set.....\$7.90



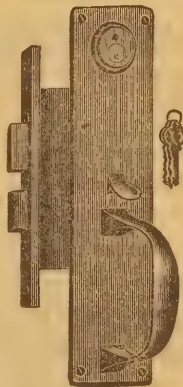
## Genuine Wrought Bronze Metal, Antique Copper Finish, Cylinder Store Door Handle and Lock.

No. 4-A-1552—Set comprises One Mortise Cylinder Store Door Lock, size 5x3½ inches with 5 pin tumbler cylinder, 3 German Silver keys, size of plates 3x12 inches, 2 bar handle grips one for either side of the door, reversible for right or left hand door, packed complete with screws. Price per set.....\$6.65



## Genuine Wrought Bronze Metal, Antique Copper Finish, Cylinder Store Door Handle and Lock.

No. 4-A-1549—Set comprises One Mortise Cylinder Store Door Lock, size 5x3½ inches, 5 pin tumbler cylinder, flat front, 2 handles and plates, size of plates 3x12 inches, reversible for right or left hand door, 3 German silver keys, packed complete with screws. Price per set.....\$6.35

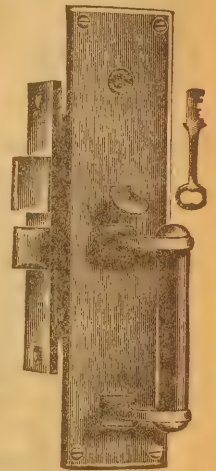


## Wrought Steel, Plated Antique Copper Finish Flat Key Store Door Handle and Lock.

No. 4-A-1553—Set comprises One Mortise Store Door Lock, size 4½x3½ inches, 2 flat steel keys, 2 bar handle grips, one for each side of the door, size of plates 3x12 inches, reversible for either right or left hand door, packed complete with screws. Price per set.....\$2.30

## Genuine Wrought Bronze Metal, Antique Copper Finish Store Door Lock and Handle.

No. 4-A-1554—Set comprises One Mortise Store Door Lock, size 4½x3½ inches, 2 flat steel keys, 2 bar handle grips, one for either side of the door, size of plates 3x12 inches, reversible for either right or left hand doors, packed complete with screws. Price per set.....\$3.95

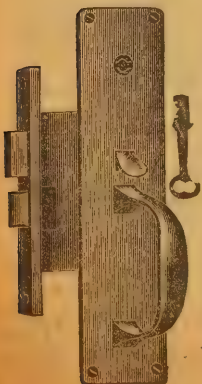


## Wrought Steel, Plated Antique Copper Finish Flat Key Store Door Handle and Lock.

No. 4-A-1550—Set comprises One Mortise Store Door Lock, 4½x3½ inches, 2 flat steel keys, 2 handles and plates, size of plates, 3x12 inches, reversible for either right or left hand door, packed complete with screws. Price, per set.....\$1.95

## Genuine Wrought Bronze Metal, Antique Copper Finish Steel Door Lock and Handle.

No. 4-A-1551—Set comprises One Mortise Store Door Lock, 4½x3½ inches, 2 flat steel keys, two handles and plates, size of plates, 3x12 inches, reversible for either right or left hand door. Packed complete with screws. Price per set.....\$3.50



## Bronze Plated Iron Store Door Handles and Locks With Polished, Raised Surface, Black Back-Ground.

No. 4-A-1555—Set comprises One Mortise Store Door Lock, size 4½x3½ inches, 2 flat steel keys, 2 handles, one for either side of the door, size of plates, 2½x13 inches, reversible for right or left hand door. Packed complete with screws. Price, per set.....\$1.65





## Edgewater Design Lock Sets

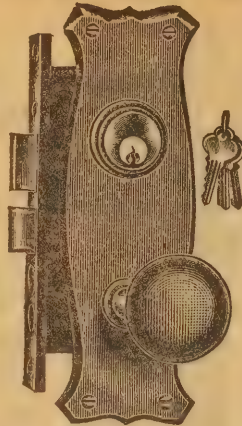
### EDGEWATER CYLINDER FRONT DOOR SETS.

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1556. This is a new design very handsome and effective. Set comprises heavy bronze front and bolts, mortise cylinder lock, 5½ x 4 inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon 3 x 9½ inches, knobs 2½ inches, reversible for right or left hand door, packed complete with screws. Price per set... \$6.30

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1557. Same as above. Price per set... \$6.30

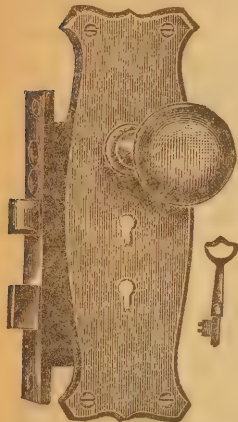


### EDGEWATER FRONT DOOR SET. Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1558. Set comprises one bronze front door lock and bolts, size 4½ x 3½ inches, with one lock key and 2 night keys, one pair knobs 2½ inches with swivel spindle. Outside escutcheon 3 x 9½ inches, reversible for right or left hand door, packed complete with screws. Price, per set... \$2.10

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1559. Same as above. Price per set... \$2.10

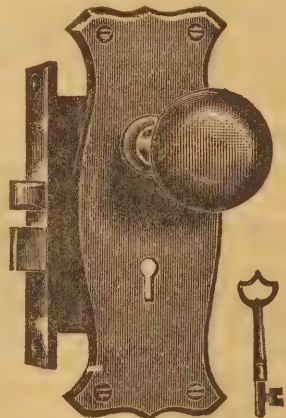


### EDGEWATER INSIDE DOOR SETS. Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1560. Set comprises one Bronze Face Lock and Bolts, size 3½ x 3½ inches, with one nickel plated steel key, one pair of knobs 2½ inches, 2 long escutcheons 2½ x 7½ inches, packed complete with screws, reversible for right or left hand door. Price per set... \$1.25  
Price, per dozen sets... 13.75

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1561. Same as above, Price, per set... \$1.25  
Price, per dozen sets... 13.75



### EDGEWATER SLIDING DOOR SETS.

Genuine Wrought Bronze, Antique Copper Finish.

For Single Doors. Flat Front.

No. 4-A-1562. Set comprises one mortise sliding door lock, size 4½ x 3½ inches. Bronze front strike bolt and pull with key, 2 flush cup escutcheons, complete with screws. Price per set... \$1.48

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1563. Same as above. Price per set... \$1.48



For Double Door Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1564. Same as above with the exception that the set is complete with 4 flush cup escutcheons. Price per set... \$2.00

Old Lemon or Brass Finish.

No. 4-A-1565. Same as above. Price per set... \$2.00

## Colonial Design Door Sets

### COLONIAL CYLINDER FRONT DOOR SETS

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1566. Set comprises a heavy bronze front and bolts, mortise cylinder lock, size 5½ x 4 inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon 2½ x 9½ inches, knobs 2½ inches, reversible for right or left hand door, packed complete with screws. Price per set... \$5.95

Genuine Wrought Bronze, Old or Lemon Brass.

No. 4-A-1567. Same as above. Price per set... \$5.95

### COLONIAL FRONT DOOR SETS.

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1568. Set comprises 1 front door lock and bolts 4½ x 3½ inches with one lock key and 2 night keys, one pair knobs 2½ inches with swivel spindle, outside escutcheon 2½ x 9½ inches, reversible for right or left hand door, packed complete with screws. Price per set... \$1.40

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1569. Same as above. Price per set... \$1.40

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1570. Set comprises one front door lock and bolts 4½ x 3½ inches with one lock key and 2 night keys, one pair knobs 2½ inches with swivel spindle, outside escutcheon 2½ x 9½ inches, reversible for right or left hand door, packed complete with screws. Price per set... \$1.75

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1571. Same as above. Price, per set... \$1.75

### COLONIAL INSIDE DOOR SETS. Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1572. Set comprises one steel front mortise lock size 3½ x 3½ inches with one nickel plated steel key, one pair knobs 2½ in., 2 long escutcheons 2½ x 7 in., reversible for right or left hand door, packed complete with screws. Price per set... \$0.55  
Price per dozen sets \$6.00.

Wrought Steel, Old or Lemon Brass Finish.

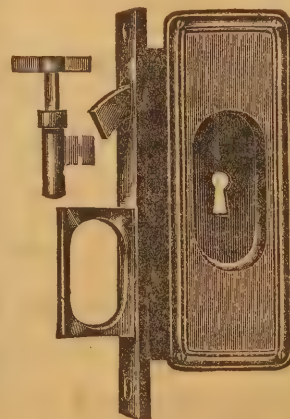
4-A-1573. Same as above. Price per set, \$0.55  
Price per dozen sets \$6.00.

Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1574. Set comprises one steel front mortise lock, size 3½ x 3½ inches with one nickel plated steel key, one pair knobs 2½ in., 2 long escutcheons 2½ x 7, reversible for right or left hand door, packed complete with screws. Price per set... \$1.10  
Price, per dozen sets, \$12.00.

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1575. Same as above, price per set \$1.10, price per doz. sets... \$12.00



### COLONIAL SLIDING DOOR SETS.

For Single Doors Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1576. Set comprises one mortise sliding door, lock, size 4½ x 3½ in., bronze front, strike bolt and pull with key, 2 flush cup escutcheons, packed complete with screws. Price per set... \$1.46

Old or Lemon Brass Finish.

4-A-1577. Same as above. Price per set... \$1.45

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1578. Same as above. Price per set... \$1.25

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1579. Same as above. Price per set... \$1.25

For Double Doors.

Genuine Wrought Bronze, Metal Antique Copper Finish.

4-A-1580. Same as the above with the exception that the set is complete with 4 flush cup escutcheons. Price per set... \$2.00

Old or Lemon Brass Finish.

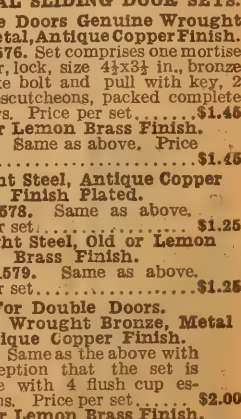
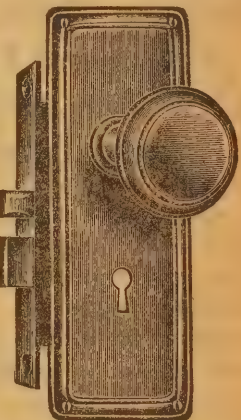
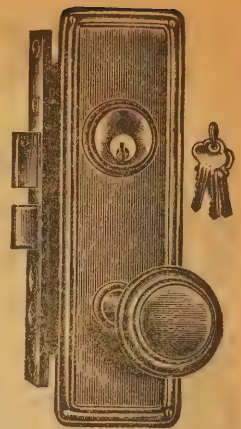
No. 4-A-1581. Same as above. Price per set... \$2.00

Wrought Steel, Antique Copper Finish plated, For Double Doors

No. 4-A-1582. Same as above. Price per set... \$1.75

Wrought Steel, Old or Lemon Brass Finish, For Double Door.

No. 4-A-1583. Same as above. Price per set... \$1.75





## Glencoe Design Door Sets

### GLENCOE CYLINDER FRONT DOOR SETS. Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1584. Set comprises a heavy bronze front and bolts, mortise cylinder lock  $5\frac{1}{4}$  inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon  $2\frac{1}{2} \times 9$  inches, knobs  $2\frac{1}{2}$  inches, reversible for right or left hand door, packed complete with screws. Price per set..... \$5.40

### GLENCOE CYLINDER FRONT DOOR SETS. Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1585. Same as above. Price per set \$5.40

### GLENCOE FRONT DOOR SETS. Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1586. Set comprises one iron front lock and bolts  $4\frac{1}{2} \times 3\frac{1}{2}$  inches, with one lock key and two night keys. One pair knobs  $2\frac{1}{2}$  inches with swivel spindle, outside escutcheon  $2\frac{1}{2} \times 9$  inches. Reversible for right or left hand door, packed complete with screws. Price per set..... \$1.40



Wrought Steel, Old or Lemon Brass Finish.  
No. 4-A-1587. Same as above. Price per set..... \$1.40

### Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1588. Set comprises one iron front lock and bolts  $4\frac{1}{2} \times 3\frac{1}{2}$  inches with one lock key and two night keys, one pair knobs  $2\frac{1}{2}$  inches with swivel spindle, outside escutcheons  $2\frac{1}{2} \times 9$  inches. Reversible for right or left hand door, packed complete with screws. Price per set..... \$1.68

### Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1589. Same as above. Price per set..... \$1.68

### GLENCOE INSIDE DOOR SETS. Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1590. Set comprises one steel front mortise lock  $3\frac{1}{2} \times 3\frac{1}{2}$  inches with one nickel plated steel key, one pair knobs  $2\frac{1}{2}$  inches, 2 long escutcheons  $2\frac{1}{2} \times 7$  inches. Reversible for right or left hand door, packed complete with screws. Price per set..... \$0.49

Price per dozen sets \$5.40.

### Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1591. Same as above. Price per set..... \$0.49

### Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1592. Set comprises one steel front mortise lock  $3\frac{1}{2} \times 3\frac{1}{2}$  inches, with one nickel plated key, one pair knobs  $2\frac{1}{2}$  inches, 2 long escutcheons  $2\frac{1}{2} \times 7$  inches. Reversible for right or left hand door, packed complete with screws. Price per set..... \$1.05

Price per dozen sets \$12.00.

### Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1593. Same as above. Price per set..... \$1.05

Price per dozen sets \$12.00.

### GLENCOE SLIDING DOOR SET. For Single Doors Genuine Wrought Bronze, Metal Antique Copper Finish.



No. 4-A-1594. Set comprises one mortise sliding door lock, size  $4 \times 3$  inches. Bronze front, strike bolt and pull with key, 2 flush cup escutcheons. Packed complete with screws. Price per set..... \$1.35

### For Single Door Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1595. Same as above. Price per set..... \$1.35

### Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1596. Same as above. Price per set..... \$1.12

### Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1597. Same as above. Price per set..... \$1.12

### GLENCOE SLIDING DOOR SETS.

### For Double Doors Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1598. Same as above with the exception that the set is complete with 4 flush cup escutcheons. Price per set..... \$1.97

### Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1599. Same as above. Price per set..... \$1.97

### Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1600. Same as above. Price per set..... \$1.72

### Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1601. Same as above. Price per set..... \$1.72

## Evanston Door Sets

### EVANSTON CYLINDER FRONT DOOR SETS.

### Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1602. Set comprises one heavy bronze front and bolts, mortise cylinder lock  $5\frac{1}{4}$  inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon  $2\frac{1}{2} \times 9$  inches, knobs  $2\frac{1}{2}$  inches, reversible for right or left hand door, packed complete with screws. Price per set..... \$5.25

### Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1603. Same as above. Price per set..... \$5.25

### EVANSTON FRONT DOOR SETS. Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1604. Set comprises one iron front lock and bolts  $4\frac{1}{2} \times 3\frac{1}{2}$  inches with one and two night keys, one pair knobs  $2\frac{1}{2}$  inches with swivel spindle, outside escutcheon  $2\frac{1}{2} \times 9$  inches, reversible for right or left hand door, packed complete with screws. Price per set..... \$1.40

### Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1605. Same as above. Price per set..... \$1.40

### Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1606. Set comprises one iron front lock and bolts  $4\frac{1}{2} \times 3\frac{1}{2}$  inches with one lock key and two night keys, one pair knobs  $2\frac{1}{2}$  inches with swivel spindle, outside escutcheon  $2\frac{1}{2} \times 9$  inches, reversible for right or left hand door, packed complete with screws. Price per set..... \$1.75

### Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1607. Same as above. Price per set..... \$1.75

### EVANSTON INSIDE DOOR SETS. Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1608. Set comprises one steel front mortise lock  $3\frac{1}{2} \times 3\frac{1}{2}$  inches, one nickel plated key, one pair knobs  $2\frac{1}{2}$  inches long, two long escutcheons  $2\frac{1}{2} \times 7$  inches, reversible for right or left hand door, packed complete with screws. Price per set..... \$0.48

### Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1609. Same as above. Price per set..... \$0.48

### Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1610. Set comprises one steel front mortise lock  $3\frac{1}{2} \times 3\frac{1}{2}$  inches, one nickel plated steel key, one pair knobs  $2\frac{1}{2}$  inches, two long escutcheons  $2\frac{1}{2} \times 7$  inches, reversible for right or left hand door, packed complete with screws. Price per set..... \$0.90

### Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1611. Same as above. Price per set..... \$0.90

Price per dozen sets..... 10.00

### EVANSTON SLIDING DOOR SETS.

### For Single Doors Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1612. Set comprises one mortise sliding door lock, size  $4 \times 3\frac{1}{2}$  inches. Bronze front, strike bolt and pull with key, 2 flush cup escutcheons, packed complete with screws, price per set..... \$1.20

### Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1613. Same as above. Price per set..... \$1.20

### Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1614. Same as above. Price per set..... \$1.05

### Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1615. Same as above. Price per set..... \$1.05

### For Double Doors Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1616. Same as above with the exception that the set is complete with 4 flush cup escutcheons. Price per set..... \$1.90

### Old or Lemon Brass Finish.

No. 4-A-1617. Same as above. Price per set..... \$1.90

### Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1618. Same as above. Price per set..... \$1.70

### Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1619. Same as above. Price per set..... \$1.70

### EVANSTON SLIDING DOOR SETS.

### For Single Doors Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1620. Set comprises one mortise sliding door lock, size  $4 \times 3\frac{1}{2}$  inches. Bronze front, strike bolt and pull with key, 2 flush cup escutcheons, packed complete with screws, price per set..... \$1.20

### Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1621. Same as above. Price per set..... \$1.20

### Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1622. Same as above. Price per set..... \$1.05

### Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1623. Same as above. Price per set..... \$1.05

### For Double Doors Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1624. Same as above with the exception that the set is complete with 4 flush cup escutcheons. Price per set..... \$1.90

Old or Lemon Brass Finish.



## Argyle Design Lock Sets



### ARGYLE CYLINDER FRONT DOOR SETS.

Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1620. Set comprises heavy bronze front and bolts, mortise cylinder lock 5x4 inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon, 2 1/2 x 10 inches, knobs 2 1/2 inches, reversible for right or left hand door, packed complete with screws. Price per set.....\$5.45

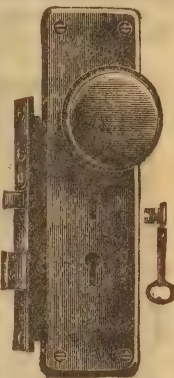
Genuine Wrought Bronze, Old Lemon Brass Finish.

No. 4-A-1621. Same as above. Price per set.....\$5.45

### ARGYLE FRONT DOOR SET.

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1622. Set comprises one iron front lock and bolts, size 4 1/2 x 3 1/2 inches. One lock, key and two night keys, one pair knobs 2 1/2 inches with swivel spindle, outside escutcheon 2 1/2 x 8 inches, reversible for right or left hand door, packed complete with screws. Price per set.....\$1.25



Wrought Steel or Old Lemon Brass Finish.

No. 4-A-1623. Same as above. Price per set.....\$1.25

Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1624. Set comprises one bronze front lock and bolts, size 4 1/2 x 3 1/2 inches. One lock, key and 2 night keys, one pair knobs 2 1/2 inches with swivel spindle, outside escutcheon 2 1/2 x 8 inches, reversible for right or left hand door, packed complete with screws. Price per set.....\$1.65

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1625. Same as above. Price per set.....\$1.65



### ARGYLE INSIDE DOOR SET.

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1626. Set comprises one steel front mortise lock, size 3 1/2 x 3 1/2 inches with one nickel plated steel key, one pair knobs 2 1/2 inches, two long escutcheons 2 1/2 x 5 1/2 inches, reversible for right or left hand door. Packed complete with screws. Price per set.....\$0.48

Price per dozen sets.....5.00

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1627. Same as above.

Price per set.....\$0.48

Price per dozen sets.....5.00

Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1628. Set comprises one steel front door mortise lock 3 1/2 x 3 1/2 inches with one nickel plated steel key, one pair knobs 2 1/2 inches, 2 long escutcheons 2 1/2 x 5 1/2 inches reversible for right or left hand door. Packed complete with screws. Price per set.....\$1.05

Price per dozen sets.....11.50

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1629. Same as above. Price per set.....\$1.05

Price per dozen sets.....11.50

### ARGYLE SLIDING DOOR SETS FOR SINGLE DOORS.

Genuine Wrought Bronze, Metal Antique Copper Finish.

No. 4-A-1630. Set comprises one mortise sliding door lock, size 4 1/2 x 3 1/2 inches, bronze front, strike bolt and pull with key, 2 flush cup escutcheons. Complete with screws. Price per set.....\$1.30

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1631. Same as above.

Price per set.....\$1.30

Genuine Wrought Steel Metal, Antique Copper Finish.

No. 4-A-1632. Same as above.

Price per set.....\$1.05

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1633. Same as above.

Price per set.....\$1.05

ARGYLE SLIDING DOOR SETS FOR DOUBLE DOORS.

Genuine Wrought Bronze Antique Copper Finish.

No. 4-A-1634. Same as the above with the exception that the set is complete with 4 flush cup escutcheons. Price per set.....\$1.90

Genuine Wrought Bronze, Old or Lemon Brass Finish.

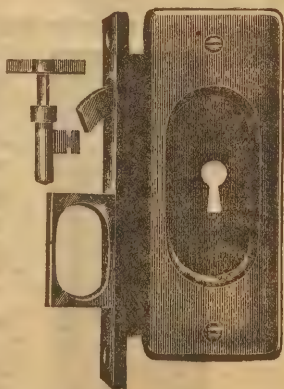
No. 4-A-1635. Same as above. Price per set.....\$1.90

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1636. Same as above. Price per set.....\$1.60

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1637. Same as above. Price per set.....\$1.60



## Oak Park Design Door Sets



### OAK PARK CYLINDER FRONT DOOR SETS.

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1638. Set comprises heavy bronze front and bolts, mortise cylinder lock, 5x4 inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon 2 1/2 x 9 1/2 inches, knobs 2 1/2 inches, reversible for right or left hand door. Packed complete with screws. Price per set.....\$5.35

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1639. Same as above. Price per set.....\$5.35

### OAK PARK FRONT DOOR SETS.

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1640. Set comprises one front door lock and bolts 4 1/2 x 3 1/2 inches with one lock key and 2 night keys, one pair knobs 2 1/2 inches with swivel spindle, outside escutcheon 2 1/2 x 9 1/2 inches, reversible for right or left hand door. Packed complete with screws. Price per set.....\$1.35

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1641. Same as above. Price per set.....\$1.35

### OAK PARK FRONT DOOR SETS.

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1642. Set comprises one front door lock and bolts 4 1/2 x 3 1/2 inches with one lock key and 2 night keys, one pair knobs 2 1/2 inches with swivel spindle, outside escutcheon 2 1/2 x 9 1/2 inches, reversible for right or left hand door. Packed complete with screws. Price per set.....\$1.70

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1643. Same as above. Price per set.....\$1.70

### OAK PARK INSIDE DOOR SETS.

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1644. Set comprises one steel front mortise lock 3 1/2 x 3 1/2 inches, with one nickel plated steel key, one pair knobs 2 1/2 inches, two long escutcheons 2 1/2 x 7 1/2 inches, reversible for either right or left hand door. Packed complete with screws. Price per set.....\$0.47

Price per dozen sets.....5.25

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1645. Same as above. Price per set.....\$0.47

Price per dozen sets.....5.25

Genuine Wrought Bronze, Metal Antique Copper Finish.

No. 4-A-1646. Set comprises one steel front mortise lock 3 1/2 x 3 1/2 inches with one nickel plated steel key, one pair knobs 2 1/2 inches, two long escutcheons 2 1/2 x 7 1/2 inches, reversible for either right or left hand door. Packed complete with screws. Price per set.....\$1.00

Price per dozen sets.....11.00

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1647. Same as above. Price per set.....\$1.00

Price per dozen sets.....11.00

### OAK PARK SLIDING DOOR SETS FOR SINGLE DOORS.

Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1648. Set comprises one mortise sliding door lock, size 4 1/2 x 3 1/2 inches, bronze front, strike bolt and pull with key, 2 flush cup escutcheons, packed complete with screws. Price per set.....\$1.35

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1649. Same as above. Price per set.....\$1.35

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1650. Same as above. Price per set.....\$1.12

No. 4-A-1651. Same as above. Price per set.....\$1.12

OAK PARK SLIDING DOOR SETS FOR DOUBLE DOORS.

Genuine Wrought Bronze Antique Copper Finish.

No. 4-A-1652. Same as above with the exception that the set is complete with 4 flush cup escutcheons. Price per set.....\$1.97

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1653. Same as above. Price per set.....\$1.97

Wrought Steel, Antique Copper Finish Plated for Double Doors.

No. 4-A-1654. Same as above. Price per set.....\$1.72

Wrought Steel, Old or Lemon Brass Finish for Double Doors.

No. 4-A-1655. Same as above. Price per set.....\$1.72





## Wilmette Door Sets.

### WILMETTE CYLINDER DOOR SETS.

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1656. Set comprises one heavy bronze front and bolts, mortise cylinder lock  $5\frac{1}{2} \times 4$  inches, 5 pin tumbler cylinder, 3 German silver keys, size of escutcheon  $3 \times 10$  inches, knobs  $2\frac{1}{2}$  inches, reversible for right or left hand door, packed complete with screws. Price per set. \$5.19

### WILMETTE CYLINDER DOOR SETS.

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1657. Same as above. Price per set. \$5.19

### WILMETTE FRONT DOOR SETS.

Genuine Wrought Bronze, Antique Copper Finish.

No. 4-A-1658. Set comprises one iron front lock and bolts  $4\frac{1}{2} \times 3\frac{1}{2}$  inches with one lock key and two night keys, one pair knobs  $2\frac{1}{2}$  inches with swivel spindle, outside escutcheon  $3 \times 10$  inches, reversible for right or left hand door, packed complete with screws. Price per set. \$1.60

### WILMETTE FRONT DOOR SETS.

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1659. Same as above. Price per set. \$1.60

### WILMETTE FRONT DOOR SETS.

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1660. Set comprises one bronze front lock and bolts  $4\frac{1}{2} \times 3\frac{1}{2}$  inches with one lock key and two night keys, one pair knobs  $2\frac{1}{2}$  inches with swivel spindle, outside escutcheon  $3 \times 10$  inches, reversible for right or left hand door, packed complete with screws. Price per set. \$1.35

### WILMETTE FRONT DOOR SETS.

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1661. Same as above. Price per set. \$1.35

### WILMETTE INSIDE DOOR SETS.

Wrought Steel, Antique Copper Finish Plated.

No. 4-A-1662. Set comprises one steel front mortise lock  $3\frac{1}{2} \times 3\frac{1}{2}$  inches, one nickel plated steel key, one pair knobs  $2\frac{1}{2}$  inches, 2 long escutcheons  $2\frac{1}{2} \times 7\frac{1}{2}$  inches, reversible for right or left hand door, packed complete with screws. Price per set. \$0.47  
Price per dozen sets. 5.00

### WILMETTE INSIDE DOOR SETS.

Wrought Steel, Old or Lemon Brass Finish.

No. 4-A-1663. Same as above. Price per set. \$0.47  
Price per dozen sets. 5.00

### WILMETTE INSIDE DOOR SETS.

Genuine Wrought Bronze, Metal Antique Copper Finish.

No. 4-A-1664. Set comprises one steel front mortise lock  $3\frac{1}{2} \times 3\frac{1}{2}$  inches, one nickel plated steel key, one pair knobs  $2\frac{1}{2}$  inches, 2 long escutcheons  $2\frac{1}{2} \times 7\frac{1}{2}$  inches, reversible for right or left hand door, packed complete with screws. Price per set. \$0.87  
Price per dozen sets. 9.60

### WILMETTE INSIDE DOOR SETS.

Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1665. Same as above. Price per set. \$0.87  
Price per dozen sets. 9.60

### WILMETTE SLIDING DOOR SETS.

For Single Doors, Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1666. Set comprises one mortise sliding door lock, size  $4\frac{1}{2} \times 3\frac{1}{2}$  inches. Bronze front, strike bolt and pull with key, 2 flush cup escutcheons, packed complete with screws. Price per set. \$1.30

### WILMETTE SLIDING DOOR SETS.

For Single Doors, Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1667. Same as above. Price per set. \$1.30

### WILMETTE SLIDING DOOR SETS.

Wrought Steel, Antique Copper Finish, Plated, for Single Doors.

No. 4-A-1668. Same as above. Price per set. \$1.05

### WILMETTE SLIDING DOOR SETS.

Wrought Steel, Old or Lemon Brass Finish, for Single Doors.

No. 4-A-1669. Same as above. Price per set. \$1.05

### WILMETTE SLIDING DOOR SETS.

For Double Doors, Genuine Wrought Bronze Metal, Antique Copper Finish.

No. 4-A-1670. Same as above with the exception that the set is complete with 4 flush cup escutcheons. Price per set. \$1.90

### WILMETTE SLIDING DOOR SETS.

For Double Door, Genuine Wrought Bronze, Old or Lemon Brass Finish.

No. 4-A-1671. Same as above. Price per set. \$1.90

### WILMETTE SLIDING DOOR SETS.

Wrought Steel, Antique Copper Finish, Plated, for Double Door.

No. 4-A-1672. Same as above. Price per set. \$1.60

### WILMETTE SLIDING DOOR SETS.

Wrought Steel, Old or Lemon Brass Finish, for Double Door.

No. 4-A-1673. Same as above. Price per set. \$1.60

## Austin Door Sets.

### AUSTIN FRONT DOOR SETS.

Wrought Steel, Bronze Plated, Black Back-Ground and Polished, Raised Surface.

No. 4-A-1674. Set comprises one iron face lock and bolts  $4\frac{1}{2} \times 8\frac{1}{2}$  inches, one lock key and 2 night keys, one pair knobs  $2\frac{1}{2}$  inches with swivel spindle, outside escutcheon  $2\frac{1}{2} \times 8$  inches, reversible for right or left hand door, packed complete with screws. Price per set. \$1.27

### AUSTIN INSIDE DOOR SETS.

Wrought Steel, Plated Antique Copper Finish.

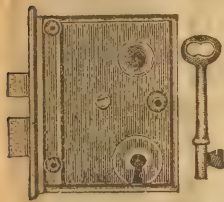
Black Back-Ground and Polished Raised Surface.

No. 4-A-1675. Set comprises mortise lock  $3\frac{1}{2} \times 3\frac{1}{2}$  inches, nickel plated steel key, one pair of jet knobs  $2\frac{1}{2}$  inches with two long escutcheons  $1\frac{1}{2} \times 5\frac{1}{2}$  inches, reversible for right or left hand door, packed complete with screws. Price per set. \$0.32  
Price per dozen sets. 3.45



# BUILDERS HARDWARE

## DOOR LOCKS JAPANNED IRON CASES Upright Rim Knob Lock



Each lock is of the best construction. Are reversible for right or left hand doors.

No. 4-A-699. Size 4x3 1/2 inches, with stop, iron bolts, Japanned escutcheons, tinned malleable key, complete with screws, knobs not included. Price, each.....\$0.10 Price, per doz.....1.10

### HORIZONTAL RIM KNOB LOCKS

No. 4-A-700. Size 3 1/2 x 4 1/2 inches, with stop, iron bolts, Japanned escutcheons, tinned malleable key, complete with screws, knobs not included. Price, each.....\$0.10 Price, per doz.....1.10



### UPRIGHT RIM KNOB LOCKS

No. 4-A-701. Guaranteed to be the best value on the market. Size 4x3 1/2 inches, with three brass bolts, nickel plated steel key, Japanned escutcheons, complete with screws, knobs not included. Price, each.....\$0.21 Price, per doz.....2.40

### HORIZONTAL RIM KNOB LOCKS

No. 4-A-702. This is a fine lock of excellent construction and will give perfect satisfaction. Size 3 1/2 x 4 1/2 inches, Japanned escutcheons, complete with screws, knobs not included. Price, each.....\$0.22 Price, per doz.....2.50



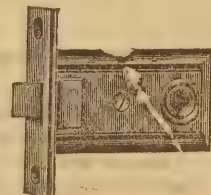
### MORTISE DOOR LATCHES

No. 4-A-703. Reversible. Size 1 1/2 x 3 1/2 inches, Japanned iron case, iron bolt and strike, knobs not included. Price each.....\$0.06 Price, per doz......66



### MORTISE DOOR LATCH

No. 4-A-704. Reversible. Size 1 1/2 x 3 1/2 inches. Japanned iron case, brass bolt and strike, knobs not included. Price, each.....\$0.14 Price, per doz.....1.60



### MORTISE DOOR LOCKS

No. 4-A-705. Size 3 1/2 x 3 1/2 inches. Reversible. Japanned iron case, lacquered front and strike, Japanned escutcheons, tinned key, complete with screws, knobs not included. Price, each.....\$0.14 Price, per doz.....1.50



### MORTISE DOOR LOCKS

No. 4-A-706. Size 3 1/2 x 4 1/2 inches. Reversible, Japanned iron case, brass bolt and front, brass plated strike, Japanned escutcheons one nickel plated steel key, complete with screws, knobs not included. Price, each.....\$0.25 Price, per doz.....2.75



### HORIZONTAL RIM KNOB LATCHES



No. 4-A-707. Size 2 1/2 x 3 1/2 inches. Reversible, Japanned iron case, iron bolt and hub, complete with screws, knobs not included. Price, each.....\$0.09 Price, per doz.....1.00

### HORIZONTAL RIM KNOB LATCHES

No. 4-A-708. Size 2 1/2 x 3 1/2 inches. Reversible, Japanned iron case, iron bolt, iron slide bolt, flush thumb piece, complete with screws, knobs not included. Price, each.....\$0.11 Price, per doz.....1.20



### HORIZONTAL TUBULAR RIM NIGHT LATCH

No. 4-A-710. Reversible. Size 2 1/2 x 3 1/2 inches, for doors 1 to 1 1/2 inches thick. Japanned case, iron bolt, nickel plated brass solid knob and stop. Two nickel plated flat steel keys, bronze metal escutcheons, complete with screws and levers, bevel strike. Price, each.....\$0.25



### STORE DOOR LOCKS

No. 4-A-712. Upright rim store door lock. Reversible. Size 5x3 inches, heavy iron bolt, wrought steel inside works, two nickel plated steel folding keys, Japanned escutcheons, complete with screws. Price, each.....\$0.48



### DOOR KNOBS

Knobs are 2 1/2 inch diameter, 1/2 inch spindle. Mineral knobs are brown mottled. Porcelain knobs are white. Jet knobs are black. No. 4-A-713. Mineral Rim Knobs. Price, each.....\$0.06 Price, per doz......70

No. 4-A-714. Porcelain Rim Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-715. Jet Rim Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-716. Mineral Mortise Knobs. Price, each.....\$0.06 Price, per doz......70

No. 4-A-717. Porcelain Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-718. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-719. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-720. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-721. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-722. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-723. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-724. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-725. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-726. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-727. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-728. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-729. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-730. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-731. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-732. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-733. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-734. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-735. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-736. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

No. 4-A-737. Jet Mortise Knobs. Price, each.....\$0.08 Price, per doz......90

### PLANISHED WROUGHT STEEL BUTTS No. 4-A-720. Old or lemon brass finish.

Size Inches	Price per Pair	Price per Doz. Pair
2 x 2	\$0.14	\$1.40
2 1/2 x 2 1/2	.16	1.65
3 x 3	.17	1.75
3 1/2 x 3 1/2	.18	1.85
4 x 4	.22	2.25
4 1/2 x 4 1/2	.26	2.75
5 x 5	.33	3.60

### WROUGHT STEEL BALL TIPPED LOOSE PIN BUTTS

No. 4-A-721. Guaranteed to be the best wrought steel butt manufactured. Highly polished and finely finished, furnished with screws to match.

Antique copper finish, highly polished.

Size Inches	Price per Pair	Price per Doz. Pair
2 x 2	\$0.21	\$2.10
2 1/2 x 2 1/2	.24	2.40
3 x 3	.26	2.60
3 1/2 x 3 1/2	.30	3.00
4 x 4	.34	3.50
4 1/2 x 4 1/2	.38	3.80
5 x 5	.42	4.25

### No. 4-A-722. Old or lemon brass finish.

Size Inches	Price per Pair	Price per Doz. Pair
2 x 2	\$0.22	\$2.25
2 1/2 x 2 1/2	.25	2.65
3 x 3	.27	2.80
3 1/2 x 3 1/2	.31	3.20
4 x 4	.35	3.65
4 1/2 x 4 1/2	.39	4.00
5 x 5	.43	4.50

### WROUGHT STEEL JAPANNED LOOSE PIN BALL TIPPED BUTTS

Size Inches	Price per Pair	Price per Doz. Pair
2 x 2	\$0.05	\$0.55
2 1/2 x 2 1/2	.06	.66
3 x 3	.07	.77
3 1/2 x 3 1/2	.09	.99
4 x 4	.11	1.20
4 1/2 x 4 1/2	.14	1.47
5 x 5	.16	1.80

### ORNAMENTAL WROUGHT STEEL SURFACE HINGES

These are a strong, heavy hinge, finely finished, intended for high class work, size 2 1/2 x 2 inches, packed with screws to match.

No. 4-A-724. Antique copper finish. Price per pair.....\$0.10 Price per doz pair 1.00

No. 4-A-725. Old or lemon brass finish. Price per pair.....\$0.10 Per doz. pair.....\$1.00

### ORNAMENTAL SURFACE HINGES WITH BALL TIPS

Made of wrought steel strong, heavy and finely finished, suitable for high class work, size 2 1/2 x 2 inches, packed with screws to match.

No. 4-A-726. Antique copper finish. Price per pair.....\$0.14 Price, per doz. pair 1.25

No. 4-A-727. Old or lemon brass finish. Price per pair.....\$0.14 Price, per doz. pair 1.25

### ORNAMENTAL WROUGHT STEEL SURFACE BUTTS, WITH BALL TIPS

Strong, heavy and finely finished, suitable for cabinet and cupboard doors. In listing the sizes of our surface butts we measure them by length of joint, still the surface part is one-half inch wider than the joint.

Packed with screws to match.

No. 4-A-728. Antique copper finish. Size 1 1/2 inches. Price per pair.....\$0.14 Per doz. pair.....\$1.25

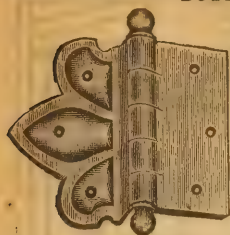
No. 4-A-729. Old or lemon brass finish. Size 1 1/2 inches. Per pair.....\$0.14 Price, per doz. pair.....1.25

No. 4-A-730. Old or lemon brass finish. Size 1 1/2 inches. Per pair.....\$0.14 Price, per doz. pair.....1.25

No. 4-A-731. Old or lemon brass finish. Size 1 1/2 inches. Per pair.....\$0.14 Price, per doz. pair.....1.25

No. 4-A-732. Old or lemon brass finish. Size 1 1/2 inches. Per pair.....\$0.14 Price, per doz. pair.....1.25



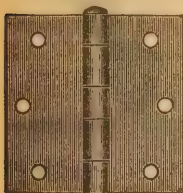
**ORNAMENTAL WROUGHT STEEL SURFACE BUTTS**

Strong, heavy and finely finished. These butts are more economical to use than other styles of butts. It is possible to hang a door in less than half the time it takes with old style butts. They are reversible for right or left hand doors by changing knob to opposite end. Packed with screws to match.

No. 4-A-730. Antique copper finish. Size 3 inches. Price per pair.	\$0.25
Price, per doz. pair.	2.75
No. 4-A-731. Old or lemon brass finish. Size 3 inches. Price per pair.	.25
Price, per doz. pair.	2.75
No. 4-A-732. Antique copper finish. Size 3 1/2 inches. Price per pair.	.30
Price, per doz. pair.	3.25
No. 4-A-733. Old or lemon brass finish. Size 3 1/2 inches. Price per pair.	.30
Price, per doz. pair.	3.25
No. 4-A-734. Antique copper finish. Size 4 inches. Price, per pair.	.37
Price, per doz. pair.	4.00
Old or lemon brass finish. Price, per pair.	.37
Price, per doz. pair.	4.00

**NARROW WROUGHT STEEL FAST PIN BUTTS**

No. 4-A-735. Plain finish, without screws.	
Length	Price per
Inches	Doz. Pair
1	\$0.10
1 1/2	.13
2	.16
2 1/2	.21
3	.28
3 1/2	.36

**WROUGHT STEEL TRANSOM BUTTS**

No. 4-A-736. Fast pin, antique copper finish, complete with screws.

Size	Price	Price
Inches	per Pair	Six Pair
2 1/2 x 2 1/2	\$0.17	\$0.97
3 x 3	.21	1.18
3 1/2 x 3 1/2	.26	1.48

**SINGLE ACTING SPRING HINGES**

No. 4-A-737. Single acting Spring Hinges to swing one way, for either right or left hand doors. Have adjustable covered tension springs, black Japanned finish, and are easily put on. Prices are without screws.

Size	For Doors	Price
Inches	inches thick	per Pair
3	1 to 1 1/2	\$0.39
4	1 to 1 1/2	.52
5	1 to 1 1/2	.65
6	1 to 1 1/2	.92
8	1 1/2 to 2 1/2	1.57

**DOUBLE ACTING SPRING HINGES**

No. 4-A-738. To swing both ways. Have adjustable covered tension springs. Black Japanned finish, easily put on. Prices are without screws.

Size	For Doors	Price
Inches	inches thick	Pair
3	1 to 1 1/2	\$0.80
4	1 to 1 1/2	1.03
5	1 to 1 1/2	1.25
6	1 to 1 1/2	1.73
8	1 1/2 to 3 1/2	2.95

**FLOOR SPRING HINGES**

No. 4-A-739. Double acting. Will swing either way. Tension of spring can be changed without removing hinge or taking down the door.

For Door	Japanned	Antique
Thickness	Finish	Copper Finish
1 to 1 1/2	\$1.00	\$1.35
1 1/2 to 2	1.25	1.65
2 to 2 1/2	1.50	2.00

**CHAIN BOLTS**

No. 4-A-740. Ornamental bronze plated chain bolts, raised polished surface, complete with 2 feet of copper chain and screws. Length, 6 inches. Price, each.

Price, each \$0.25

**No. 4-A-741.**

Ornamental bronze plated bottom or foot bolts. Raised polished surface, complete with screws.

Price, each \$0.24

**CHAIN BOLTS**

Wrought steel, antique copper highly polished finish. The wrought steel bolts are practically indestructible and are recommended in preference to the

iron bolts which break so easily.

No. 4-A-742. Length 6 inches. Price, each \$0.35

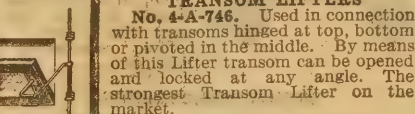
No. 4-A-743. Length 8 inches. Price, each .40

**FOOT BOLTS**

Wrought steel, antique copper highly polished finish, furnished complete with screws.

No. 4-A-744. Length 6 inches. Price, each \$0.30

No. 4-A-745. Length 8 inches. Price, each .35

**TRANSOM LIFTERS**

No. 4-A-746. Used in connection with transoms hinged at top, bottom or pivoted in the middle. By means of this Lifter transom can be opened and locked at any angle. The strongest Transom Lifter on the market.

Plain copper finished.

Length	Price
Feet	Each
3	\$0.10
4	.12
5	.25
6	.30

No. 4-A-747. Transom Lifter.

Antique copper finish.

Length, Feet	Price, each
3	\$0.17
4	.22
5	.32
6	.37

**DOOR PUSH PLATES**

Genuine wrought bronze metal, finely finished, complete with screws to match.

Size 2 1/2 x 9 1/2 inches.

No. 4-A-748. Antique copper finish. Price, each \$0.45

No. 4-A-749. Old or lemon brass finish. Price, each .48

Wrought steel, handsomely finished, size 2 1/2 x 9 1/2, with screws to match.

No. 4-A-750. Antique copper finish. Price, \$0.20

No. 4-A-751. Old or lemon brass finish. Price, \$0.20

Price, per doz. \$2.00

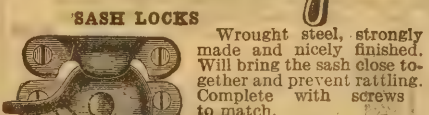
**SIDE SASH LOCKS**

No. 4-A-752. They do away with the rattling of windows and hold as firm as a vise. Will lock the sash securely at any desired point, affording an excellent and safe means of ventilation, complete with screws to match.

Antique copper finish.

Price, each \$0.08

Price, per doz. \$0.90

**SASH LOCKS**

Wrought steel, strongly made and nicely finished. Will bring the sash close together and prevent rattling. Complete with screws to match.

No. 4-A-753. Antique copper finish.

Price, each \$0.05

Price, per doz. \$0.48

No. 4-A-754. Old or lemon brass finish.

Price, each \$0.05

Price, per doz. \$0.50

**SPRING WINDOW BOLTS**

No. 4-A-755. Japanned bolt, tinned case.

Price, per doz. \$0.08

Price, per gross \$0.90

**CASEMENT FASTENERS. Reversible**

To be used in connection with casement or French windows, size 1 1/2 x 1 1/2, complete with screws to match.

No. 4-A-756. Iron antique copper finish.

No. 4-A-757. Iron, old or lemon brass finish.

Price, each \$0.22

No. 4-A-758. Solid bronze metal, antique copper finish. Price, each \$0.40

No. 4-A-759. Solid bronze metal, old or lemon brass finish. Price, each \$0.40

Price, per doz. \$4.80

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Price, per doz. \$4.80



**SASH BALANCES.**

No. 4-A-777. Used instead of sash weights. Easy to apply and do not require box frames. Springs are finely tempered. We guarantee our balance to carry sash perfectly. A set consists of four balances, enough for two sashes.

No.	Weight of each Sash	Height of each per Set	Price
6.....	4 to 6.....	34.....	\$0.94
8.....	6 to 8.....	34.....	1.00
10.....	8 to 10.....	34.....	1.10
12.....	10 to 12.....	44.....	1.25
14.....	12 to 14.....	44.....	1.45
16.....	14 to 16.....	44.....	1.50
18.....	16 to 18.....	48.....	1.62
20.....	18 to 20.....	48.....	1.85
22.....	20 to 22.....	48.....	1.95
24.....	22 to 24.....	48.....	2.10
26.....	24 to 26.....	50.....	2.20
28.....	26 to 28.....	50.....	2.30
30.....	28 to 30.....	50.....	2.35
32.....	30 to 32.....	50.....	2.55
34.....	32 to 34.....	50.....	2.70
36.....	34 to 36.....	50.....	2.90

**SASH WEIGHTS.**

No. 4-A-778. Sash standard sizes and weights. Four weights required to hang each window. Weights range from 3 to 9 lbs. by half-pounds. Heavier than 9 lbs. weights graduate by pounds. Price, per lb. ....\$0.014

**BRAIDED COTTON SASH CORD.**

Made of especially selected long fiber cotton firmly braided and the most durable manufactured. Put up in 100 ft. bundles.  
No. 4-A-779. No. 7 braided cotton sash cord, 7-32 inch diameter. Price, per bundle. ....\$0.50  
No. 4-A-780. No. 8 braided cotton sash cord, 8-32 inch diameter. Price, per bundle. ....\$0.57

**PERFECTION HEMP SASH CORD.**

Made of a fine long fiber white Indian hemp cable laid. Put up in 100 ft. bundles.  
No. 4-A-781. Perfection Hemp Sash Cord. No. 7 7-32 inch diameter. Price, per bundle. ....\$0.30  
No. 4-A-782. Perfection Hemp Sash Cord. No. 8 8-32 inch diameter. Price, per bundle. ....\$0.35

**STEEL SASH PULLEYS.**

No. 4-A-783. Made entirely of steel and electrically welded and cannot break. Requires no screws. Simply bore three holes and drive the pulley in. Diameter of wheel 2 inches. Price, per doz. ....\$0.23

**COMMON SENSE IRON SASH PULLEY.**

No. 4-A-784. Mortised in with 1 inch bit. Diameter of wheel 2 inches. Price, per doz. ....\$0.21



No. 4-A-785. Improved noiseless sash pulley. Face is polished antique copper finish, turned wheel 2 1/2 inch diameter. The smoothest running and best sash pulley on the market. Price, per doz. ....\$1.10

**DRAWER PULLS.**

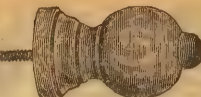
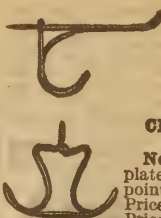
Wrought steel plated and nicely finished. Length 3 1/2 inch, complete with screws to match.  
No. 4-A-786. Antique copper finish. Price, each. ....\$0.03  
Price, per doz. ....\$2.6

**DRAWER PULLS.**

Genuine wrought bronze metal, finely finished and highly polished. Length 3 1/2 inch, complete with screws to match.  
No. 4-A-787. Antique copper finish. Price, each. ....\$0.08  
Price, per doz. ....\$2.35  
No. 4-A-788. Old or lemon brass finish. Price, each. ....\$0.08  
Price, per doz. ....\$2.35

**WOOD BASE KNOBS.**

No. 4-A-789. Made of hard wood rubber tipped. Price, each. ....\$0.02  
Price, per doz. ....\$1.2

**COAT AND HAT HOOKS.**

No. 4-A-790. Made of copper plated spring steel wire, gimlet pointed screw. Length 3 inches. Price, per doz. ....\$0.06  
Price, per gross. ....\$0.60

**CLOSET AND WARDROBE HOOKS.**

No. 4-A-791. Made of copper plated spring steel wire, gimlet pointed screw. Length 3 inches. Price, per doz. ....\$0.07  
Price, per gross. ....\$0.75

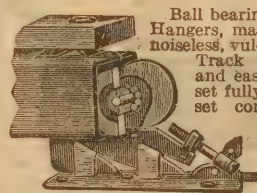
**FOOT SCRAPERS.**

Made entirely from steel. The strongest, most rigid and durable foot scraper manufactured. Width, 6 inches. Height 2 inches, complete with screws.  
No. 4-A-795. Price, each. ....\$0.05

**STORM THRESHOLDS.**

Made of best quality gray iron casting. Keeps out the rain and snow. Size given is the length between jambs.

No. 4-A-796. Size, inches. .... 25 30 32 34  
Price, each. ....\$0.43 \$0.46 \$0.50 \$0.54

**PARLOR DOOR HANGERS AND TRACK.**

Ball bearing steel Parlor Door Hangers, made entirely of steel, noiseless, vulcanized fiber wheels. Track is rigid and firm and easily adjusted. Each set fully guaranteed. Each set complete with track and all necessary fixtures. Full directions packed with each set.  
No. 4-A-792. For Double Doors.

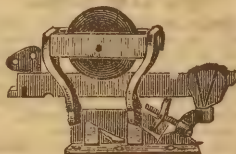
Size opening, feet 4 5 6 7  
Price, per set. ....\$3.10 \$3.20 \$3.30 \$3.45  
No. 4-A-793. For Single Doors.  
Size opening, feet 3 4 5 6  
Price, per set. ....\$1.50 \$1.80 \$2.10 \$2.50

**FIBER TREAD NOISELESS BALL BEARING PARLOR DOOR HANGERS AND TRACK.**

The heaviest and best hanger of this type on the market. Complete with track and all necessary fixtures.

No. 4-A-794. For Double Doors with 14 feet of track and fixtures complete. Price, per set. ....\$2.95

No. 4-A-794. For Single Doors with 8 feet of track and fixtures complete. Price, per set. ....\$1.50

**DOOR BUTTONS**

No. 4-A-775. Japanned iron, without screws. Price, per doz. ....\$0.05  
Price, per gross. ....\$0.40

**STOP BEAD SCREWS AND WASHERS**

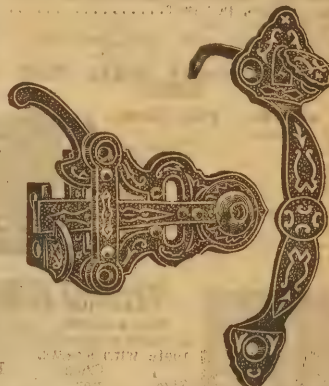
No. 4-A-776. Antique copper finish, finely polished. Price, per doz. ....\$0.06  
Price, per gross. ....\$0.65

**BASEMENT WINDOW SETS.**

A great time saver for carpenters and builders. Are suitable for basement, dormer or attic windows. Hinged to swing. A strong lock presses the sash tightly into the frame. Excludes the cold and prevents rattling.

No. 4-A-797. Set for sash hinged at side. Consists of one pair 2 1/2 inches wrought steel butts, one Japanned steel sash fastener, complete with screws, packed in box. Price per set. ....\$0.12

No. 4-A-798. Set for sash hinged at top. Consists of one pair 2 1/2 inch wrought steel butts, one Japanned steel sash fastener, one hook and eye, complete with screws, packed in box. Price, per set. ....\$0.15

**THUMB LATCH.**

No. 4-A-799. Ornamental cast iron, bronze finish, complete without screws. Price, per set. ....\$0.06  
Price, per doz. sets. ....\$0.60

**DOOR PULLS.**

No. 4-A-800. Wrought steel door pulls, antique copper finish, length 4 1/2 inches. Price, each. ....\$0.02  
Price, per doz. ....\$2.0

**SCREEN DOOR SETS.****SCREEN DOOR SETS.**

No. 4-A-801. Consists of one pair heavy hold back spring hinges, Japanned finish, one steel door pull, one hook and screw eye. Price, per set. ....\$0.10

**SCREEN DOOR CATCHES.**

No. 4-A-802. Vienna bronze finish, suitable for doors 1 to 1 1/2 inch thick, complete with screws. Price, each. ....\$0.12  
Price, per doz. ....\$1.35

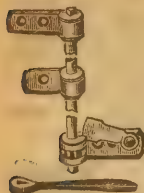


No. 4-A-803. Antique copper finish, suitable for door 1 to 1 1/2 inch thick, complete with screws. Price, each. ....\$0.21  
Price, per doz. ....\$2.35

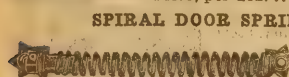


**SCREEN DOOR HINGES.**

No. 4-A-804. Hold back spring hinges. The strongest and best manufactured, Japanned case.  
Price, per pair without screws.....\$0.08  
Price, per doz. pair without screws......35

**TORREY'S READY DOOR SPRING.**

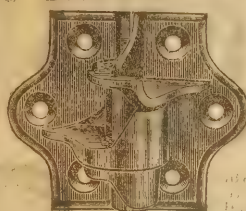
No. 4-A-805. A special wrench is supplied with each set for adjusting tension. Length, 39 inches.  
Price, each.....\$0.12  
Price, per doz.....1.25

**SPIRAL DOOR SPRINGS.**

No. 4-A-807. This spring is neatly coiled and made from an extra grade of highly tempered and fastened securely to the bracket and spring holder and so arranged that the tension is adjustable. It can be made to throw the door open if so desired. To secure best results, it should be fastened as nearly perpendicular as possible. Length over all 9 inches.  
Price, each.....\$0.09

**BLIND HINGES.**

No. 4-A-808. Clark's Gravity Locking Blind Hinges and Fasteners for frame houses. Throws the blind 1 1/2 inch from the casing. Set includes 4 hinges and two fasteners but does not include screws.  
Price, per set.....\$0.07  
Price, per doz......90

**BARREL BOLTS.**

No. 4-A-809. Wrought steel with Japanned plates, finished bolts, steel knobs.

Length inches	Price each	Price per doz.
3.....	\$0.03	\$0.33
4.....	.04	.44
5.....	.05	.55
6.....	.06	.66

No. 4-A-810. Wrought steel antique copper finish nicely polished.

Length inches	Price each	Price per doz.
3.....	\$0.07	\$0.80
4.....	.09	1.00
5.....	.10	1.10
6.....	.11	1.20

**CHEST HANDLES.**

No. 4-A-811. Made of cast iron, Japanned finish. Price, per pair.....\$0.07

**STATIONARY CASTERS.**

No. 4-A-812. Heavy cast iron stationary box or truck casters, strong and substantial. Size wheel, inches 3 4  
Price, each.....\$0.09.....\$0.13  
Price, per doz.....1.05.....1.50

**SWIVEL CASTERS.****ANTI-FRICTION ROLLER BEARING BARN DOOR HANGERS**

Made entirely of steel, except the wheel. The axle is of hardened steel and both wheel and axle are covered and protected from the weather. 1/2 inch bolts are used to put up these hangers and prices do not include bolts.

No. 4-A-841. Size of wheel 3 1/2 inches for small and medium bolts. Price, per pair.....\$0.35  
Price, per doz.....4.00

No. 4-A-842. Size of wheel 4 inches, suitable for the largest sized doors.  
Price, per pair.....\$0.45  
Price, per doz.....5.00

No. 4-A-843. For doors 6 ft. run, diameter of wheels 4 inches.  
Price, per pair.....\$0.60

No. 4-A-844. For doors 10 ft. run, diameter of wheels 5 inches.  
Price, per pair.....\$0.83

**LOOSE AXLE BARN DOOR HANGERS, MADE EXTRA HEAVY**

Guaranteed not to bind or jump the track. Wheels are mounted on hardened steel axle, and owing to the construction of the hanger they are protected from the weather. 1/2 inch bolts are required to put on these hangers. Prices do not include bolts.



No. 4-A-843. For doors 6 ft. run, diameter of wheels 4 inches.  
Price, per pair.....\$0.60

No. 4-A-844. For doors 10 ft. run, diameter of wheels 5 inches.  
Price, per pair.....\$0.83

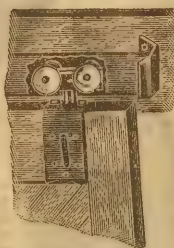
**HINGE JOINT ROLLER BEARING BARN DOOR HANGERS**

No. 4-A-845. Made entirely of steel, except wheel which is chilled gray iron, mounted on hardened steel axle. Can be used on any size door and any length run. Hinge joint makes the hanger flexible so that it will not bind or jump the track. The roller bearings are of special hardened steel and the best that can be secured. The wheel is protected from the weather. In connection with these hangers use 1 1/2 inch track.  
Price, per pair.....\$0.55

All Our Stock of Hardware is Brand New and Up-To-Date Patterns

**ROLLER BEARING TROLLEY BARN DOOR HANGERS**

No. 4-A-846. The wheel runs inside of the hollow steel track, which protects it from the weather. Suitable for doors 1 1/2 to 2 1/2 inches thick. Guaranteed to be the easiest running hanger made and cannot bind or jump the track.



A set consists of two hangers, two end brackets, and one center bracket, complete with screws. Center brackets should be spaced not more than 3 ft. apart.  
Price, per set.....\$1.25

No. 4-A-847. Trolley track without brackets in lengths of 4, 5, 6, 8 and 10 feet. Price, per foot.....\$0.10

No. 4-A-848. Steel center brackets, Price, each......10

**STEEL BARN DOOR TRACK**

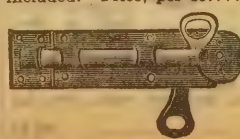
Double braced and designed to carry heavy doors. Furnished in lengths of 4, 6, 8 and 10 feet. Screws not included.

No. 4-A-849. Size 1 1/2 x 1 inch. Price, per ft.....\$0.03 1/2

No. 4-A-850. Size 1 1/2 x 1 1/2 inch. Price, per ft......04 1/2

**BARN DOOR LATCH**

No. 4-A-851. Made entirely from wrought steel and is reversible. Can be operated from either side and applied to sliding or swinging doors. It is arranged so pad lock can be used in locking. Cannot be tampered with as all screws are concealed. Easily applied and should be used on all barn doors. Screws not included. Price, per set.....\$0.25

**BARN DOOR BOLT**

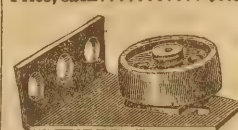
No. 4-A-852. Heavy pattern, made especially for stables and outbuildings. Can be operated from either side. Length, 8 inches.  
Price, each.....\$0.14

**BARN DOOR PULLS**

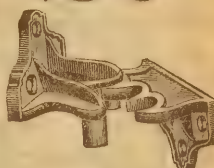
No. 4-A-856. Extra heavy cast iron Japanned. Price, each.....\$0.02

**DOOR CATCHES**

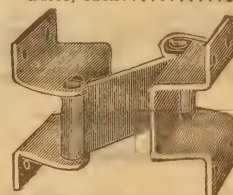
No. 4-A-857. Designed for holding open swinging doors. Made of heavy gray cast iron Japanned.  
Price, each.....\$0.04

**BARN DOOR STAY ROLLERS**

No. 4-A-858. For inside and outside doors, adjustable and reversible. Wheel 2 inches diameter.  
Price, each.....\$0.08

**GATE LATCH**

No. 4-A-860. The latch is encased, requiring but a small mortise through the stile and engages into the keeper on the post. It is adjustable to meet any sag in the gate. Suitable for right or left hand gates.  
Price, each.....\$0.07

**DOUBLE ACTING STEEL GATE HINGE**

No. 4-A-861. Self closing, made entirely of steel. Strongest gate hinge manufactured.  
Price, per set.....\$0.40

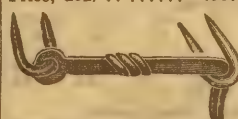
**GRAVITY GATE LATCH**

No. 4-A-862. Made of steel and malleable iron. Is the only adjustable gate latch on the market. Overcomes shrinking and sagging of gate posts.  
Price, each.....\$0.18

**GATE HOOKS AND EYES**

No. 4-A-863. Bright steel wire.

Length, inches	2	3	4
Price, each.....	\$0.01	\$0.01	\$0.02
Price, doz.....	.06	.06	.10

**WROUGHT HOOKS AND STAPLES**

No. 4-A-864. Length, Price  
Inches Each for six  
4.....\$0.02.....\$0.08  
6......03......12

**HASPS AND STAPLES**

No. 4-A-865. Made of wrought steel, with double hook.  
Length Price Price  
Inches Each per Doz.  
6.....\$0.02.....\$0.17  
8......02 1/2......21  
10......03......28





**IMPROVED COMBINATION HASP**

No. 4-A-866.  
Hasp and hook combined, length 8 inches.  
Price, each, \$0.03;  
Price, per doz. . . . .37

**STEEL HINGE HASPS**

No. 4-A-867. Prices do not include screws.  
Length, inches . . . . .3 6 8 10  
Price, each . . . . . \$0.03 \$0.05 \$0.06 \$0.09  
Price, per doz. . . . .35 50 70 90

**LIGHT WROUGHT STEEL STRAP HINGES**

No. 4-A-868. Sizes given are half the length of hinge.  
Size . . . . .3 4 5 6  
Price, per pair . . . . . \$0.03 \$0.04 \$0.05 \$0.06  
Price, per doz. pair . . . . .33 43 45 55

**HEAVY WROUGHT STEEL STRAP HINGES**

No. 4-A-869. Sizes given are half the length of hinge.  
Size . . . . .6 8 10 12 14  
Price, per pair \$0.06 \$0.09 \$0.17 \$0.23 \$0.27  
Price, per doz. pair . . . . .67 100 165 265 320

**LIGHT WROUGHT STEEL "T" HINGES**

No. 4-A-870. Measurements are from joint to end of hinge.  
Size, inches . . . . .3 4 6 8  
Price, per pair . . . . . \$0.03 \$0.04 \$0.05 \$0.06  
Price, per doz. pair . . . . .33 43 55 65

**HEAVY WROUGHT STEEL "T" HINGES**

No. 4-A-871. Measurements are from joint to end of hinge.  
Size, inches . . . . .6 8 10 12 14  
Price, per pair \$0.08 \$0.14 \$0.22 \$0.30 \$0.35  
Price, per doz. pair . . . . .90 160 250 340 400

**WROUGHT STEEL SCREW STRAP HINGES**

No. 4-A-872. Made of heavy wrought steel.  
Size, inches . . . . .10 12 14  
Price, per pair . . . . . \$0.16 \$0.21 \$0.25  
Price, per doz. pair . . . . .190 240 285

**WIRE NAILS**

Strictly brand new and perfect. Prices quoted are subject to market changes. In event of decline in price you get the benefit of lower price.

Having a very large stock of wire nails we can take care of all reasonable requirements during the life of this catalog. However, should the price advance and there be a much larger demand than we anticipate, we would then be obliged to furnish nails at the prevailing market prices at the time order is received.

Keys contain 100 lbs. Orders for less than full kegs will be charged for at pound price.

**COMMON WIRE NAILS**

No. 4-A-820

2d	3d	4&5d	6&7d	8&9d	10-12	30-40
Per keg \$2.95	2.70	2.55	2.45	2.35	2.30	2.25
Per lb. . . . .	.03	.03	.03	.03	.03	.03

**PLAIN SHINGLE NAILS**

No. 4-A-821

Size	3d	4d	5d
Per keg . . . . .	\$2.30	\$2.55	\$2.55
Per lb. . . . .	.03	.03	.03

**GALVANIZED SHINGLE NAILS**

No. 4-A-822

Size	3d	4d	5d
Per keg . . . . .	\$3.90	\$3.90	\$3.90
Per lb. . . . .	.05	.05	.05

**FINISHING NAILS**

No. 4-A-823

2d	3d	4&5d	6&7d	10-12
Per keg . . . . .	\$3.50	\$3.10	\$2.90	\$2.70
Per lb. . . . .	.04	.04	.04	.04

**MIXED WIRE NAILS**

A Very Handy Assortment  
No. 4-A-824. 2,000 kegs of these nails on hand. We purchased them from the nail mills. They are mixed, all sizes in a keg. We have sold a great many of them during the past few years and they are very popular. The assortment ranges from about 3 to 30d, and mostly common and barbed nails in the assortment. Each keg contains from 100 to 115 lbs. of nails.

Price per single keg . . . . . \$1.60  
Price per keg in lots of 3 kegs . . . . . 1.55  
Price per keg in lots of 5 kegs . . . . . 1.50

No. 4-A-826. Put up in one pound packages.		
Length	Gauge	Price
Inches		Per lb.
1 1/2	19	\$0.10
1 1/4	18	.09
1 1/2	18	.07
1 1/4	17	.06
1 1/2	16	.06
1 1/4	15	.05
1 1/2	15	.05

**PAD LOCKS**

No. 4-A-827. Solid steel pad lock. This lock is not to be compared with the common cast iron lock which can be easily broken. The steel locks are much stronger and cannot be broken like the cast iron lock. This lock has strong shackle, is self locking, Jap-

anned case, complete with two keys. Width 2 inches.  
Price, each . . . . . \$0.08  
Price, per doz. . . . .75

No. 4-A-828. Solid steel Pad Lock, strong shackle, self locking, Jap-

anned case with brass drop over key hole. Width 2 inches, complete with two keys.

Price . . . . . \$0.12  
Each . . . . . \$1.25

No. 4-A-829. Ornamental Brass plated steel pad lock, strong shackle, self locking, width 1 1/2 inch, complete with two flat keys.

Price, each . . . . . \$0.10  
Price, per doz. . . . . 1.20

No. 4-A-830. Three Lever Pad Lock, heavy pressed steel, brass plated, strong shackle, self locking, width 2 inches, complete with two nickel plated flat steel keys.

Price . . . . . \$0.14  
Each . . . . . \$1.45

No. 4-A-831. Six Lever, brass plated, steel case pad lock. Do not compare this lock with iron case locks of similar style. There is no comparison. This lock is of much better construction and a steel case; cannot be broken as can an iron case. We guarantee this lock to be equal to any 50 cent lock on the market. Inside work is of brass and guaranteed not to corrode. Width 2 inches, complete with two flat steel keys.

Price, each . . . . . \$0.20  
Price, per doz. . . . . 2.00

No. 4-A-832. Same as No. 4-A-831. Solid gun bronze metal, all brass with 9 inches tinned steel chain.

Price, each . . . . . \$0.55  
Price, per doz. . . . . 6.00

No. 4-A-833. Solid bronze bicycle lock, extra long shackle and bolts, self locking, furnished with 12 inches nickel plated chain with solid steel ring, complete with two keys.

Price, each . . . . . \$0.25  
Price, per doz. . . . . 2.65

Rural Free Delivery solid brass pad lock. Dark oxidized back ground, all brass inside work, guaranteed rust proof. The best mail lock box made. Has automatic spring shackle that flies to quarter turn position when unlocked. Each lock has two keys and one master key for the mail carrier.

is furnished with each dozen locks. Width of lock 1 1/2 inches, height of lock, including shackle 2 1/2 inches. A heavier and better lock than generally offered.

No. 4-A-836. Without chain. Price, each. \$0.25  
No. 4-A-837. With 6 inches brass chain. Price, each. . . . .29  
No. 4-A-838. Extra master keys. Price, each. . . .10

**RURAL FREE DELIVERY MAIL BOXES**

Approved by the Postmaster General.

No. 4-A-839. Square bottom, made of No. 20 gauge galvanized steel, painted with rust proof aluminum paint. All joints riveted. Edges nicely turned and finished. The cover overhangs, making it water-

proof. Fitted with automatic flag signal and hasp for pad lock.

Each box is equipped with special coin holder which is operated by pushing a lever, the coin, falling into the carriers hands, making it unnecessary for him to remove glove.

Length 18 inches, width 6 inches, depth 6 inches. Weight 6 1/2 lbs.

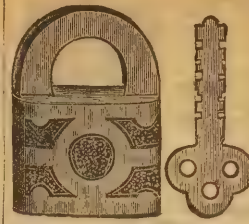
Price, with coin holder. . . . . \$0.50  
Price, per doz. . . . . 5.65

No. 4-A-840. Round Bottom Mail Boxes, made of No. 20 gauge galvanized steel, painted with rust proof aluminum paint, fitted with automatic flag signal and hasp for pad lock.

Sloping roof and guaranteed to be weatherproof and the best box manufactured.

Equipped with special coin holder. Length 18 inches, width 6 inches, depth 6 inches, weight, 7 lbs.

Price, each . . . . . \$0.65  
Price, per doz. . . . . \$7.20



No. 4-A-832. The best pad lock manufactured. Made of solid gun bronze metal, all brass inside work, extra strong shackle, and locking bolts, dust proof plunger, closing shackle opener, cylinder key hole guide, finely finished, width 1 1/2 inch, complete with two nickel plated flat steel keys.

Price, each. . . . . \$0.47  
Price, per doz. . . . . \$5.00

No. 4-A-833. Same as No. 4-A-832. Solid gun bronze metal, all brass with 9 inches tinned steel chain.

Price, each . . . . . \$0.55  
Price, per doz. . . . . 6.00

No. 4-A-834. Solid bronze bicycle lock, extra long shackle and bolts, self locking, furnished with 12 inches nickel plated chain with solid steel ring, complete with two keys.

Price, each. . . . . \$0.25  
Price, per doz. . . . . 2.65

Rural Free Delivery solid brass pad lock. Dark oxidized back ground, all brass inside work, guaranteed rust proof. The best mail lock box made. Has automatic spring shackle that flies to quarter turn position when unlocked. Each lock has two keys and one master key for the mail carrier.

is furnished with each dozen locks. Width of lock 1 1/2 inches, height of lock, including shackle 2 1/2 inches. A heavier and better lock than generally offered.

No. 4-A-836. Without chain. Price, each. \$0.25  
No. 4-A-837. With 6 inches brass chain. Price, each. . . . .29  
No. 4-A-838. Extra master keys. Price, each. . . .10

**RURAL FREE DELIVERY MAIL BOXES**

Approved by the Postmaster General.

No. 4-A-839. Square bottom, made of No. 20 gauge galvanized steel, painted with rust proof aluminum paint. All joints riveted. Edges nicely turned and finished. The cover overhangs, making it water-

proof. Fitted with automatic flag signal and hasp for pad lock.

Each box is equipped with special coin holder which is operated by pushing a lever, the coin, falling into the carriers hands, making it unnecessary for him to remove glove.

Length 18 inches, width 6 inches, depth 6 inches. Weight 6 1/2 lbs.

Price, with coin holder. . . . . \$0.50  
Price, per doz. . . . . 5.65

No. 4-A-840. Round Bottom Mail Boxes, made of No. 20 gauge galvanized steel, painted with rust proof aluminum paint, fitted with automatic flag signal and hasp for pad lock.

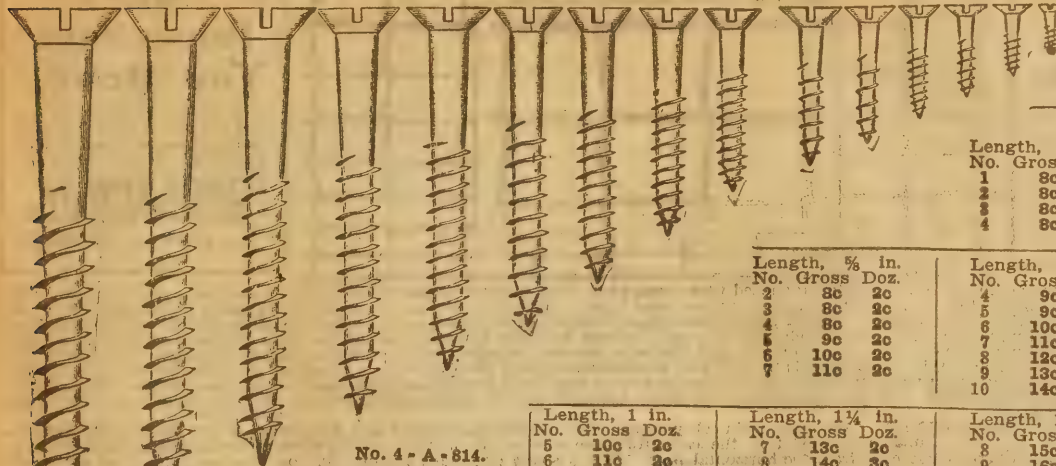
Sloping roof and guaranteed to be weatherproof and the best box manufactured.

Equipped with special coin holder. Length 18 inches, width 6 inches, depth 6 inches, weight, 7 lbs.

Price, each . . . . . \$0.65  
Price, per doz. . . . . \$7.20



## WOOD SCREWS

Length, by inches—															
3	2½	2½	2½	2	1½	1½	1½	1	¾	¾	¾	¾	¾	¾	¾
20	18	16	14	12	10	9	8	7	6	5	4	3	2	1	
Size No—															
															
No. 4-A-814.															
Flat head bright wood screws, cold forged, are stronger, hold better, and are inserted easier than other wood screws. Orders for less than a gross will be charged at the dozen price.															
Length, 2 in.				Length, 2½ in.				Length, 3 in.				Length, 3½ in.			
No. Gross Doz.				No. Gross Doz.				No. Gross Doz.				No. Gross Doz.			
10 20c 4c				12 25c 4c				14 40c 7c				16 57c 8c			
12 23c 4c				14 30c 4c				16 48c 7c				18 68c 9c			
14 28c 4c				16 40c 5c				18 62c 7c				20 83c 10c			
16 35c 4c				18 52c 5c				20 74c 7c							
18 47c 4c															

Length, ¼ in.	No. Gross	Doz.
1	8c	1c
2	8c	1c
3	8c	1c

Length, ¾ in.	No. Gross	Doz.
1	8c	1c
2	8c	1c
3	8c	1c
4	8c	1c
5	8c	1c
6	10c	2c

Length, ¾ in.	No. Gross	Doz.
2	8c	2c
3	8c	2c
4	8c	2c
5	9c	2c
6	10c	2c
7	11c	2c

Length, ¾ in.	No. Gross	Doz.
4	9c	2c
5	9c	2c
6	10c	2c
7	11c	2c
8	12c	2c
9	13c	2c
10	14c	2c

Length, ¾ in.	No. Gross	Doz.
5	9c	2c
6	10c	2c
7	10c	2c
8	12c	2c
9	12c	2c
10	13c	2c
12	16c	2c

Length, 1 in.	No. Gross	Doz.
5	10c	2c
6	11c	2c
7	12c	2c
8	13c	2c
9	14c	2c
10	15c	2c
12	17c	2c
14	20c	2c

Length, 1½ in.	No. Gross	Doz.
7	13c	2c
8	14c	3c
9	15c	3c
10	16c	3c
12	18c	3c
14	22c	3c
16	30c	3c

Length, 1½ in.	No. Gross	Doz.
8	15c	3c
9	16c	3c
10	17c	3c
12	20c	3c
14	24c	3c
16	32c	3c

Length, 1½ in.	No. Gross	Doz.
9	16c	3c
10	17c	3c
12	20c	3c
14	26c	4c
16	33c	4c
18	45c	4c

## FLAT HEAD JAPANESE WOOD SCREWS

No. 4-A-816.

Length	Size	Price	Price
Inches	No.	Per Doz.	Per Gross
¾	8	\$.03	\$.18
¾	9	\$.03	\$.19
¾	10	\$.03	\$.20
1	8	\$.03	\$.19
1	9	\$.03	\$.20
1	10	\$.03	\$.21
1	12	\$.03	\$.23
1¼	8	\$.03	\$.20
1¼	9	\$.03	\$.21
1¼	10	\$.03	\$.22
1¼	12	\$.03	\$.26
1½	8	\$.03	\$.21
1½	9	\$.03	\$.23
1½	10	\$.03	\$.24
1½	12	\$.03	\$.28

## ROUND HEAD NICKEL PLATED IRON SCREWS.

No. 4-A-817.

Length	Size	Price	Price
Inches	No.	Per Doz.	Per Gross
¾	8	\$.02	\$.17
¾	9	\$.02	\$.17
¾	10	\$.02	\$.17
¾	12	\$.02	\$.18
1	8	\$.03	\$.18
1	9	\$.03	\$.19
1	10	\$.03	\$.20
1	12	\$.03	\$.21
1¼	8	\$.03	\$.19
1¼	9	\$.03	\$.20
1¼	10	\$.03	\$.21
1¼	12	\$.03	\$.23
1½	8	\$.03	\$.21
1½	9	\$.03	\$.23
1½	10	\$.03	\$.24
1½	12	\$.03	\$.26
1	6	\$.03	\$.21
1	7	\$.03	\$.22
1	8	\$.03	\$.24
1	9	\$.03	\$.25
1	10	\$.03	\$.27
1¼	6	\$.03	\$.23
1¼	7	\$.03	\$.24
1¼	8	\$.03	\$.25
1¼	9	\$.03	\$.26
1¼	10	\$.03	\$.28
1¼	12	\$.04	\$.30
1½	8	\$.04	\$.32
1½	9	\$.04	\$.34
1½	10	\$.04	\$.34
1½	12	\$.04	\$.37

## ROUND HEAD BLUED WOOD SCREWS.

No. 4-A-815.

Length	Size	Price	Price
Inches	No.	Per Doz.	Per Gross
¾	5	\$.02	\$.13
¾	6	\$.02	\$.14
¾	7	\$.02	\$.13
¾	8	\$.02	\$.14
¾	9	\$.02	\$.15
¾	10	\$.02	\$.17
1	6	\$.03	\$.14
1	7	\$.03	\$.16
1	8	\$.03	\$.17
1	10	\$.03	\$.21
1¼	7	\$.03	\$.18
1¼	8	\$.03	\$.19
1¼	9	\$.03	\$.21
1¼	10	\$.03	\$.23
1¼	12	\$.03	\$.26
1½	12	\$.03	\$.28
1½	14	\$.03	\$.33
1½	12	\$.04	\$.30
1½	14	\$.04	\$.38

## FLAT HEAD BRASS SCREWS.

No. 4-A-819.

Length	Size	Price	Price
Inches	No.	Per Doz.	Per Gross
¾	2	\$.02	\$.19
¾	3	\$.02	\$.20
¾	4	\$.02	\$.21
¾	5	\$.03	\$.22
¾	6	\$.03	\$.24
¾	7	\$.03	\$.27
¾	8	\$.03	\$.28
¾	9	\$.04	\$.36
¾	10	\$.04	\$.39
¾	12	\$.04	\$.45
1	8	\$.05	\$.51
1	6	\$.04	\$.37
1	7	\$.04	\$.43
1	8	\$.05	\$.50
1	9	\$.05	\$.57
1	10	\$.06	\$.64
1¼	7	\$.05	\$.50
1¼	8	\$.06	\$.58
1¼	9	\$.06	\$.65
1¼	10	\$.07	\$.74
1¼	12	\$.08	\$.80
1½	8	\$.09	1.07
1½	9	\$.08	\$.76
1½	10	\$.08	\$.84
1½	12	\$.10	1.08
1½	12	\$.11	1.23

## ROUND HEAD BRASS SCREWS.

No. 4-A-818.

Length	Size	Price	Price
Inches	No.	Per Doz.	Per Gross
¾	2	\$.03	\$.21
¾	3	\$.03	\$.22
¾	4	\$.03	\$.24
¾	5	\$.03	\$.24
¾	6	\$.03	\$.25
¾	7	\$.03	\$.28
¾	8	\$.03	\$.27
¾	9	\$.03	\$.30
¾	10	\$.04	\$.37
¾	12	\$.04	\$.32
1	7	\$.04	\$.40
1	8	\$.05	\$.53
1	9	\$.04	\$.38
1	10	\$.04	\$.44
1	12	\$.05	\$.51
1	8	\$.06	\$.58
1	6	\$.04	\$.41
1	7	\$.05	\$.48
1	8	\$.05	\$.56
1	9	\$.06	\$.64
1	10	\$.07	\$.72
1¼	7	\$.05	\$.56
1¼	8	\$.06	\$.65
1¼	9	\$.07	\$.74
1¼	10	\$.08	\$.80
1¼	12	\$.09	1.07
1½	8	\$.08	\$.76
1½	9	\$.08	\$.84
1½	10	\$.10	1.08
1½	12	\$.11	1.23

## LARGE BOLTS.

No. 4-A-1486. We have several tons of large sized mixed bolts that we secured in connection with our dismantling the World's Fair at St. Louis. They are not in very good condition, but they are good enough for general purposes and range in size from 1 to 1½ in. diameter, and in lengths from 10 to 21 in.

We will sell them mixed in lots of 500 lbs. at price per lb. of \$0.01½

## MIXED NEW BOLTS.

No. 4-A-9. New Bolts, all kinds, ¾ to 1 inch in diameter and lengths from 1 to 20 inches. Brand new but mixed together.

Price in 50 lb. lots or less, per lb. \$0.04½

Price in 100 lb. lots, per lb. \$0.03½

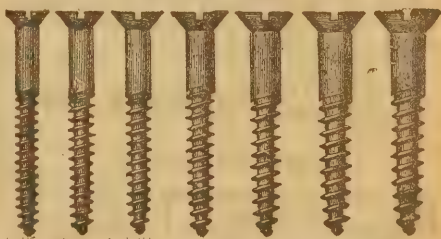
## WOOD LAG SCREWS.



Assorted Sizes and Lengths.

No. 4-A-1526.	Price per lb.
Mixed, any quantity, not less than 10 lbs.	\$0.03
In lots of 25 lbs.	\$.02½
In lots of 50 lbs.	\$.02½
In lots of 100 lbs.	\$.02

## WOOD SCREWS.



No. 4-A-1480. New Wood Screws, all sizes and lengths, mixed together, all in perfect condition. In any quantity, but not less than 5 lbs.

No. 4-A-1481. Brass Wood Screws, all sizes, mixed together. In any quantity, not less than 2½ lbs. Per lb. \$0.22

## MIXED RIVETS.

No. 4-A-1485. A carload of new rivets of all kinds mixed together. This includes tinnerns' rivets, machinists' rivets, wagon makers' sheet iron rivets; in fact, rivets of all kinds. No guaranteed assortment; we sell them just as they come.

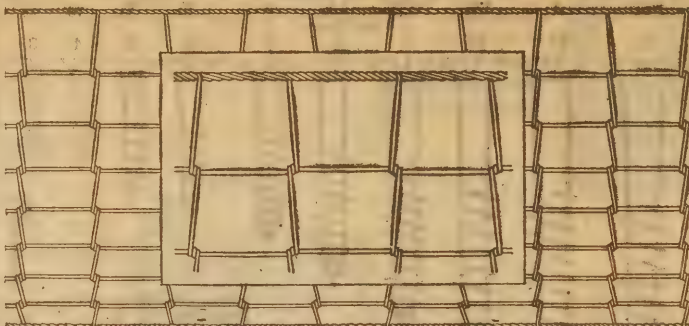
Price per lb. as follows:	
Lots of 25 lbs.	\$5.04 per lb.
Lots of 50 lbs.	\$.03½ per lb.
Lots of 100 lbs.	\$.03 per lb.
Lots of 250 lbs. or more.	\$.02½ per lb.



# "Premier" Galvanized Woven Wire Fencing

## Why The Best Fence Made

This is a continuous galvanized woven wire fence, as the uprights are woven right into the cable continuously. Hence you have a fence of the strongest possible construction, far better than any fence made with a single top or single bottom wire.



## Our Prices Save You Money

We do not buy fencing in the regular way of paying fence makers exorbitant prices, but secure brand new stocks at

**SHERIFFS' SALES  
RECEIVERS' SALES  
AND FACTORY SALES**

Hence save you 25 to 50 %

**HOW MADE.** We use only heavy No. 12 gauge galvanized wire throughout. The top and bottom cables of the Premier fence consist of two heavy No. 12 gauge galvanized wires twisted together. The intermediate or line wires, also the upright stays are made of No. 12 gauge galvanized wire. The stay wire is twisted with the two wires in the top bar. Then it passes down across all intermediate wires, being twisted into a knot with each of the intermediate or line wires at intersecting points. Then the upright or stay wire is twisted into the two wires of the bottom cable for a space of either 6 or 12 inches, when the stay wire or upright wire again passes upwards and the same process is repeated, which makes a continuous woven wire fence.

The method of this construction in this fencing affords the best and most reliable means of taking care of expansion and contraction. The illustration shown above will give you an idea of just how the lateral and the upright wires cross upon and engage each other. Note the evenness. The wires are wound about each other without any angle, thus preventing the wires from breaking and a smooth, even twisted perfectly tight knot made which cannot be found in any other fence.

**CONTINUOUS WOVEN WIRE FENCE.** We must again call your attention to the illustrations and description of the construction that the Premier fence has a continuous stay wire, each being twisted into the cable from one stay to the other makes the fence perfectly smooth and leaves no chance for the ends to unravel and become detached from the horizontal bars. This is a very important feature, for you have no loose ends to untwist afterward, or become loose and endanger your stock.

### ACTUAL SIZE WIRE

### UNFINISHED CABLES

### COMPLETE CABLE WIRE

### "PREMIER" KNOT

#### No. 1

Above illustration shows the actual size of wire used throughout the Premier fence. It is No. 12 gauge, heavy galvanized wire and makes a splendid, strong and durable fence.

#### No. 2

Above illustration shows cable wire at top and bottom of Premier fencing, consisting of two No. 12 gauge galvanized wires twisted together and is the actual size of top and bottom cables before the upright is woven into them. (See illustration No. 3.)

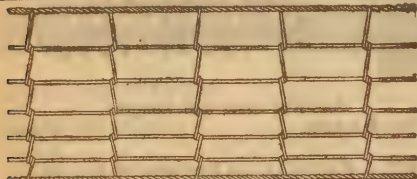
#### No. 3

Above shows the top and bottom cables after the upright wire is woven in them, as explained before, and is composed of two No. 12 galvanized wires twisted together with the upright wire woven into them at intervals of 6 or 12 inches according to the spacing of the upright wire.

#### No. 4

Above shows how the upright wire is twisted into the line wire or intermediate wire, making a smooth and perfectly tight knot, which cannot slip. (No fence made has a better or tighter knot than this.)

**25 INCH "PREMIER" SHEEP  
and HOG FENCE, Per Rod... 19½c**



Height 25 Inches; Uprights 12 Inches Apart.  
HAS 7 LINE WIRES, spaced apart from bottom up, 2½, 3½, 3½, 4½, 5 and 5½ inches.

MADE OF NO. 12 GAUGE, galvanized wire throughout.

**HOW USED.** Erect fence 2 inches above ground and place 3 strands of barb wire above fence, spaced 6, 8 and 10 inches apart makes a complete fence 4 feet and 3 inches high.

FURNISHED in rolls containing 20 and 40 rods.

WEIGHT per 100 rods is 575 pounds.  
No. 24-A-6. "25 inch PREMIER" SHEEP and HOG FENCE (Uprights 12 inches apart).

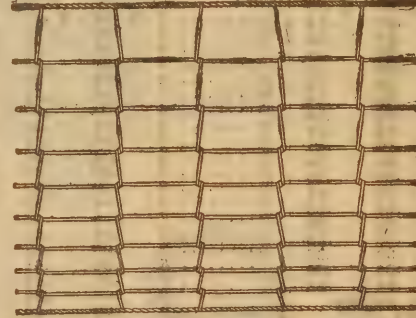
Per rod... 19½c

### AS A PORTABLE FENCE



amount of handling. The fence is so strong and rigid that when used as a temporary fence it requires but very few posts. If good anchor posts are put up at each end of the fence, intermediate posts may be placed anywhere from 20 to 40 feet.

**46 INCH "PREMIER" FIELD  
FENCE. Per Rod... 28c**



Height 46 Inches, Uprights 12 Inches Apart.  
HAS 10 LINE WIRES, spaced apart from bottom up, 2½, 3½, 3½, 4½, 5, 5½, 6, 7 and 8 inches.

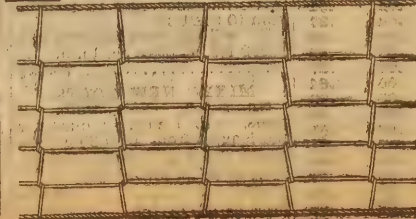
MADE OF NO. 12 GAUGE, galvanized wire throughout.

**HOW USED.** Erect fence 2 inches above ground and place a barb or cable wire 8 inches above fence, which makes a complete fence 4 feet and 8 inches high.

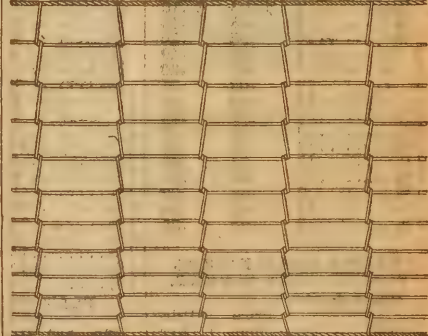
FURNISHED in rolls of 20 and 40 rods.  
WEIGHT per 100 rods is 875 pounds.

No. 24-A-8. "46 inch PREMIER" SHEEP and HOG FENCE, (Uprights 12 inches apart).  
Per rod... 28c

**36 INCH "PREMIER" HORSE  
AND CATTLE FENCE. Rod 19c**



**58 INCH "PREMIER" FIELD  
FENCE, Per Rod... 33c**



Height 58 inches, Uprights 12 inches apart.  
HAS 12 LINE WIRES, spaced apart from bottom up, 2½, 2½, 3½, 3½, 4½, 5, 5½, 6, 7, 8 and 9 inches.

MADE OF NO. 12 GAUGE, galvanized wire throughout.

**HOW USED.** Placed 2 inches from the ground it stands 5 feet high. A splendid fence for those who want an extra high fence and do not like cable or barb wire above it.

FURNISHED in rolls of 20 and 40 rods.  
WEIGHT per 100 rods is 925 pounds.

No. 24-A-9. 58 inch "PREMIER" HIGH FARM FENCE, (Uprights 12 inches apart).  
Per rod... 33c

Height 36 inches, Uprights 12 inches apart.  
HAS 6 LINE WIRES, spaced apart from bottom up 6, 6, 7, 8 and 9 inches.

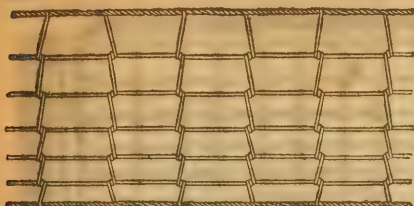
MADE OF NO. 12 GAUGE, galvanized wire throughout.

**HOW USED.** Erect fence 20 inches above ground, which makes fence stand 4 feet and 8 inches high. On account of the spacing, this fence should not be placed near the ground for turning hog and small stock, but used only as a horse and cattle fence.

FURNISHED in rolls of 20 and forty rods.  
WEIGHT per 100 rods is 560 pounds.

No. 24-A-7. 36-inch "PREMIER" HORSE AND CATTLE FENCE, (Uprights 12 inches apart).  
Per rod... 19c



**25 INCH "PREMIER" HOG FENCE, Per rod, 24<sup>1</sup>/<sub>2</sub>c**

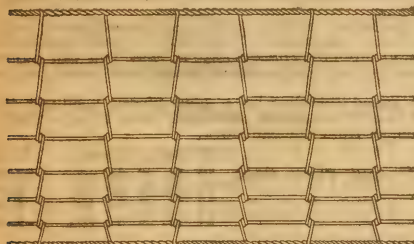
Height 25 inches. Uprights 6 inches apart. HAS 7 LINE WIRES, spaced apart from bottom up, 2<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 4<sup>1</sup>/<sub>2</sub>, 5, 5<sup>1</sup>/<sub>2</sub> inches.

MADE OF No. 12 GAUGE, galvanized wire throughout.

HOW USED. Erect fence 2 inches above ground and place 3 strands of barb wire above fence, spaced 6, 8, and 10 inches apart; makes a complete fence 4 feet and 3 inches high.

FURNISHED in rolls of 20 and 40 rods.

WEIGHT per 100 rods is 685 pounds.  
No. 24-A-1. "25 inch PREMIER" HOG FENCE (uprights 6 inches apart) per rod.....24<sup>1</sup>/<sub>2</sub>c

**31 INCH "PREMIER" SHEEP and HOG FENCE, Per Rod... 28c**

Height 31 inches. Uprights 6 inches apart. HAS 8 LINE WIRES, spaced apart from bottom up, 2<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 4<sup>1</sup>/<sub>2</sub>, 5, 5<sup>1</sup>/<sub>2</sub> and 6 inches.

MADE OF No. 12 GAUGE, galvanized wire throughout.

HOW USED. Erect fence 2 inches above ground and place 2 strands of barb wire above fence, spaced 8 inches apart; makes a complete fence 4 feet and 3 inches high.

FURNISHED in rolls of 20 and 40 rods.

WEIGHT per 100 rods is 780 pounds.  
No. 24-A-2. "31 inch PREMIER" SHEEP and HOG FENCE (uprights 6 inches apart). Price per rod.....28c

**38 INCH "PREMIER" LOW STOCK FENCE, Per Rod... 32c**

Height 38 inches. Uprights 6 inches apart. HAS 9 LINE WIRES, spaced apart from bottom up, 2<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 4<sup>1</sup>/<sub>2</sub>, 5, 5<sup>1</sup>/<sub>2</sub>, 6 and 7 inches.

MADE OF No. 12 GAUGE, galvanized wire throughout.

HOW USED. Erect fence 2 inches above ground and place 1 strand of barb wire 8 inches above fence; makes a complete fence 4 feet high.

FURNISHED in rolls of 20 and 40 rods.

WEIGHT per 100 rods is 890 pounds.  
No. 24-A-3. "38 inch PREMIER" LOW STOCK FENCE (uprights 6 inches apart). Price per rod.....32c

**VALUABLE INFORMATION.**

Number of Rods of Fence necessary to enclose:

640 acres or 1 section - 1x1 mile - 1280 rods of fence.  
320 acres or 1/2 section - 1x1 mile - 960 rods of fence.  
160 acres or 1/4 section - 1x1 mile - 640 rods of fence.  
80 acres or 1/8 section - 1x1 mile - 480 rods of fence.  
40 acres or 1/16 section - 1x1 mile - 320 rods of fence.

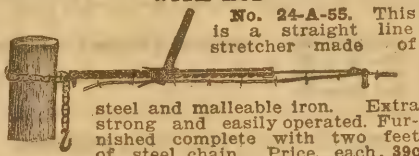
**46 INCH "PREMIER" FIELD FENCE, Per Rod..... 36c**

Height 46 inches. Uprights 6 inches apart. HAS 10 LINE WIRES, spaced apart from bottom up, 2<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 4<sup>1</sup>/<sub>2</sub>, 5, 5<sup>1</sup>/<sub>2</sub>, 6, 7 and 8 inches.

MADE OF No. 12 GAUGE, galvanized wire. HOW USED. Placed 2 inches above ground it stands 4 feet high. If desired, place a strand of barb wire 8 inches above and it makes fence high enough for horses.

FURNISHED in rolls of 20 and 40 rods.

WEIGHT per 100 rods is 990 pounds.  
No. 24-A-4. "46 inch PREMIER FIELD FENCE (uprights 6 inches apart). Price per rod 36c

**RATCHET STEEL WIRE STRETCHER WITH ROD**

No. 24-A-55. This is a straight line stretcher made of

steel and malleable iron. Extra strong and easily operated. Furnished complete with two feet of steel chain. Price, each. 39c

**TACKLE BLOCK WIRE STRETCHER**

Fitted with an automatic lock or clasp. Disengaged by a slight movement of the hand rope. Can also be used as a safety hoist, with which



any man can lift 500 pounds. Furnished complete with 15<sup>1</sup>/<sub>2</sub> feet of 3/8-inch pure manila rope.  
No. 24-A-56. Price, each.....78c

**GIANT FENCE STRETCHER**

The only self-locking fence stretcher manufactured. No ratchet or pawls to be released. Quick acting and powerful. Furnished complete with 8 feet of steel chain, bolts and wooden clamps. Weight per set, 47 pounds.

No. 24-A-57. Price, per set.....\$3.50

**COMBINED ADJUSTABLE STRETCHER**

This is a combined fence stretcher and safety hoist. Furnished complete with 57 inch hardwood clamps and bolts, chain and stirrups, with heavy malleable adjustable loop which can be adjusted between the legs to make a sufficient tension on the top or bottom wires as may be required.

The Safety Hoist is made to be used with 3/4-inch rope, with which one man can easily lift 600 pounds.

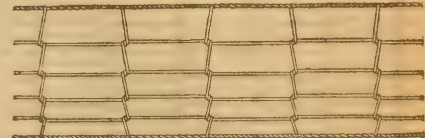
Weight of stretcher, clamps, chain, loop, swivel and safety hoist, 45 pounds.

We do not furnish post chain rope or single tree.  
No. 24-A-58. Price.....\$4.45

**"PERFECTION" GALVANIZED WOVEN WIRE FENCING.**

Made exactly the same as our Premier Woven Wire Fencing with the exception that it is made entirely of No. 13 gauge galvanized wire which makes an extremely reliable and satisfactory fence for general farm use. We do not, however, recommend this fencing in places where it is liable to great strain, such as barn yards and feed lots.

Do not understand from this that the fence is not strong. In fact, it is stronger owing to its construction, than many of the woven wire fences that are made of No. 12 gauge galvanized wire. We recommend, however, that where the heaviest and very best grade of woven wire fencing is required that you order the "Premier."

**20 INCH "PERFECTION" HOG FENCE, Per Rod.. 15<sup>1</sup>/<sub>2</sub>c**

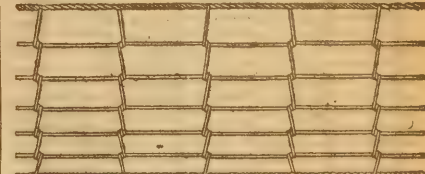
Height 20 inches. Uprights 12 inches apart. HAS 6 LINE WIRES, spaced apart from bottom up, 2<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 4<sup>1</sup>/<sub>2</sub> and 5 inches.

MADE OF No. 13 GAUGE, galvanized wire throughout.

HOW USED. It is especially adapted for stretching along the bottom of hedge fence to make them hog tight.

FURNISHED in rolls of 20 and 40 rods.

WEIGHT per 100 rods is 491 pounds.  
No. 24-A-10. 20 inch "PERFECTION" REINFORCING FENCE (uprights 12 inches apart). Price per rod.....15<sup>1</sup>/<sub>2</sub>c

**25 INCH "PERFECTION" HOG FENCE, Per Rod... 22<sup>1</sup>/<sub>2</sub>c**

Height 25 inches. Uprights 6 inches apart. HAS 7 LINE WIRES, spaced apart from bottom up, 2<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 4<sup>1</sup>/<sub>2</sub>, 5 and 5<sup>1</sup>/<sub>2</sub> inches.

HOW USED. Erect fence 2 inches above ground; makes it stand 2 feet 3 inches high. Result is an excellent hog fence; or you can place 3 strands of barb wire above fence, 6, 8 and 10 inches apart, which makes a fence 4 feet 3 ins. high.

FURNISHED in rolls of 20 and 40 rods.

WEIGHT per 100 rods is 577 pounds.  
No. 24-A-11. 25 inch "PERFECTION" HOG FENCE (uprights 6 inches apart). Price per rod 22<sup>1</sup>/<sub>2</sub>c

**46 INCH "PERFECTION" STOCK FENCE, Per Rod, 24<sup>1</sup>/<sub>2</sub>c**

Height 46 inches. Uprights 12 inches apart. HAS 10 LINE WIRES, spaced apart from bottom up, 2<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 3<sup>1</sup>/<sub>2</sub>, 4<sup>1</sup>/<sub>2</sub>, 5, 5<sup>1</sup>/<sub>2</sub>, 6, 7, and 8 inches.

MADE OF No. 13 GAUGE, galvanized wire throughout.

HOW USED. Erect fence 2 inches above ground and fence then stands 4 feet high, or you can add a strand of barb wire 8 inches above the fence, which makes the fence 4 feet and 8 inches high, which is high enough for horses.

FURNISHED in rolls of 20 and 40 rods.

















WEIGHT per 100 rods is 663 pounds.  
No. 24-A-12. "46 inch PERFECTION" STOCK FENCE (uprights 12 inches apart) Price per rod.....24<sup>1</sup>/<sub>2</sub>c







TABLE OF SIZES AND WEIGHTS OF IRON AND STEEL WIRE

No.	Full Size of the Wire.	Dec's of Inch.	Feet in a Pound.
8		.207	8.810
6		.192	10.230
7		.177	12.047
8		.162	14.885
9		.148	17.240
10		.135	20.70
11		.120	26.174
12		.105	34.240
18		.092	44.640
14		.080	59.174
15		.072	72.99
16		.063	95.23
17		.054	129.53
18		.047	170.94
19		.041	224.71
20		.035	308.66

SMOOTH GALVANIZED FENCE WIRE.  
New Continuous Lengths.

No. 4-A-1473.

This wire is strictly first class, fully guaranteed, in full lengths; put up in catch weight coils of about 100 lbs. to the coil, at following prices per 100 lbs:

No. 9.....	\$2.40	No. 12.....	\$2.55
No. 11.....	2.50	No. 14.....	2.75

Prices subject to market changes.

## GALVANIZED WIRE SHORTS.



This term is used to denote smooth, new wire secured by us under contract from the various wire mills. It is galvanized and extensively used for building fences and many other purposes. It is put up one gauge only in a bale, each containing 100 lbs.

Regular Galvanized Wire Shorts, lengths in a bale ranging anywhere from 45 to 250 feet.

Prices as follows:

No. 4-A-1473B.

Price	Price	Price
Gauges 100 lbs.	Gauges 100 lbs.	Gauges 100 lbs.
5.....\$1.40	10.....\$1.50	16.....\$1.90
6.....1.40	11.....1.50	17.....1.90
7.....1.40	12.....1.50	18.....2.40
8.....1.40	14.....1.60	19.....2.40
9.....1.50	15.....1.60	

## PAINTED WIRE SHORTS.

No. 4-A-1472.

The same general description applies to this grade as to the galvanized, the difference being that some of the galvanizing is imperfect, and the wire is therefore painted.

Price	Price	Price
Gauges 100 lbs.	Gauges 100 lbs.	Gauges 100 lbs.
8.....\$1.15	10.....\$1.25	12.....\$1.25
9.....1.25	11.....1.25	14.....1.25

## TWISTED CABLE WIRE.

No. 4-A-1475.

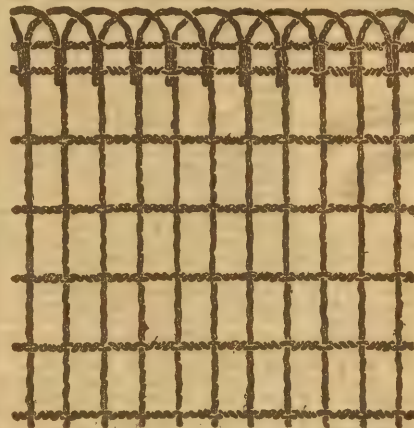
This wire is made the same as barbed wire with the omission of the barbs; in other words, it is two strands of wire twisted together. Comes painted, put up on reels same as barbed wire, catch weight, of about 100 lbs.

Our price per 100 lbs. Painted.....\$1.95

## PEERLESS GALVANIZED BARBED WIRE



No. 24-A-16. This is the very best barbed wire manufactured, and is a great money saver. It is made of two strands. No. 14 gauge wire, twisted together and has two barbed points 3 inches apart. Wire is extra heavily galvanized, and is put up in rolls containing 80 rods to the roll. Each roll weighs about 56 lbs. Unlike the heavier barbed wire it is sold by the reel and not by the weight. Price, per reel .....\$1.65

Ornamental Woven Wire Fence  
to be used on Wood Posts.

We bought 22,000 feet at a great concession, so we can make you a price about one-half of what you pay at retail. It is strictly first-class, brand new in every respect and thousands of feet of this fence is sold every year to erect on wood posts.

It gives your lawn a beautiful appearance and adds to the value of your home many fold the low cost of the fence. Also can be used for yard division fence, as it casts no shadow and flowers can be grown close to the fence. Vines will trail over it, making the surroundings attractive.

**HOW MADE.** Uprights are heavy No. 9 gauge galvanized wire and are spaced 2 1/2 inches apart, so close that children cannot climb the fence. All line wires or horizontal wires are heavy galvanized, made in the form of a cable of two No. 12 gauge galvanized wires. The two top line wires or cables are spaced 2 1/2 inches apart; other cables or line wires are spaced 5 1/2 to 6 inches apart.

	Height	Weight	No.	Price
		per ft.	cables	lineal ft.
No. 24-A-475.	24 in.	1 1/2 lbs.	5	\$ .08
No. 24-A-476.	30 "	1 1/2 "	6	.09
No. 24-A-477.	35 "	1 1/2 "	7	.10
No. 24-A-478.	40 "	2 "	8	.11
No. 24-A-479.	46 "	2 1/2 "	9	.13

GALVANIZED  
STAPLESFor Poultry Netting  
and for Farm Fence

## STAPLES FOR POULTRY NETTING.

There are 550 1/2 inch staples to a pound and 230 1 inch staples to a pound.

No. 24-A-425.	1 in., in 5, 10, 25 lb. box.	Lb. .44c
No. 24-A-426.	1 1/2 in., in 100 lb. kegs.	Per keg \$3.96
No. 24-A-427.	1 in., in 5, 10, 25 lb. box.	Lb. .44c
No. 24-A-428.	1 in., in 100 lb. kegs.	Per keg \$3.95

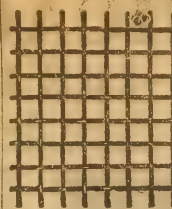
## STAPLES FOR FARM FENCE.

Use 1 in. or 1 1/2 in. on hard wood posts and 1 1/2 in. and 1 1/2 in. for soft posts.

There are 120 1 inch staples to a pound; 100 1 1/2 inch staples to a pound and 80 1 1/2 inch staples to a pound.

No. 24-A-429.	1 in., in 5, 10, 25 lb. box.	Lb. 3c
No. 24-A-430.	1 in., in 100 lb. kegs.	Per keg \$2.77
No. 24-A-431.	1 1/2 in., in 5, 10, 25 lb. box.	Lb. 3c
No. 24-A-432.	1 1/2 in., in 100 lb. kegs.	Per keg \$2.75
No. 24-A-433.	1 1/2 in., in 5, 10, 25 lb. box.	Lb. 3c
No. 24-A-434.	1 1/2 in., in 100 lb. kegs.	Per keg \$2.75

## WIRE CLOTH FOR SCREENS



No. 24-A-48. Painted black wire cloth for window and door screens. This is the very best quality of wire cloth on the market. A double selvage is coated with a special wire cloth tape which does not crack or peel off. Put up in rolls containing 100 lineal feet. We will furnish any length required.

Width	Price per	Price per
Inches	Roll	Running Ft.
24.....	\$2.95	\$0.03 1/2
26.....	3.10	.03 1/2
28.....	3.25	.03 1/2
30.....	3.40	.04
32.....	3.60	.04 1/2
34.....	4.05	.04 1/2
36.....	4.30	.04 1/2

## BRIGHT WIRE CLOTH

No. 24-A-49. Bright wire cloth for window screens, doors, etc. This cloth is made by an entirely new process and has a bright aluminum finish, and is more nearly rust proof than the black wire cloth. Put up in rolls containing 100 lineal feet.

Width	Price per	Price per
Inches	Roll	Running Ft.
24.....	\$4.40	\$0.05
26.....	4.75	.05 1/2
28.....	5.15	.05 1/2
30.....	5.25	.06 1/2
32.....	5.60	.06 1/2
34.....	6.00	.07
36.....	6.30	.07 1/2

## BULL DOG WIRE GRIP

A very handy tool for tightening loose wire. Can be attached to a bar and strong leverage secured. Fitted with swivel.



No. 24-A-53. Price, each.....19c



## STEEL FENCE RATCHETS

Reversible and can be used at posts or any intermediate point. By using these ratchets you can tighten up the wire and easily keep the fence from sagging.

No. 24-A-54. Price, each \$0.04  
Price, per doz......40  
Price, per 100.....3.00

## BARBED WIRE STRETCHER.

No. 4-A-1478.

The cut represents Barbed Wire Stretcher, of which no explanation is necessary. We bought several hundreds of these at a forced sale sometime ago.

The regular price on them was 50 cents each. As these are somewhat shop worn and rusted we have cut this price in two, and as long as they last will sell them at...25c



## STEEL POSTS FOR FENCE PURPOSES.

No. 4-1479.

We manufacture special to length round steel tubular posts. We can furnish in length from 4 to 12 feet. In estimating the length of post you need be sure you include sufficient to drive in the ground. We would recommend from 1 1/2 to 2 feet in the ground. A great many of these posts are set in concrete, making a solid, lasting, immovable post. We paint them before shipment. Our coating is a combination of asphaltum and graphite and other ingredients, specially prepared for lasting qualities. The diameters noted are the outside sizes. Prices are per foot and no extra charge for cutting.

No.	Diameter	Approximate	Price
		Weight per ft.	per ft.
18-A-1479	2 inches.....	2 lbs.....	\$0.03 1/2
18-A-1479	2 1/2 ".....	2 1/2 ".....	.04 1/2
18-A-1479	3 ".....	3 ".....	.06 1/2
18-A-1479	3 1/2 ".....	4 ".....	.08 1/2
18-A-1479	4 ".....	5 1/2 ".....	.10 1/2



# THE CHICAGO CREAM SEPARATOR

## THE LEADER OF THEM ALL

Greatest Skimming Device Ever Invented. The Smallest Cream Separator Bowl in the world. It Can Never Get Out of Balance. Simplest and Most Common Sense Cream Separator ever made. Others will try to Imitate the "Chicago" Separator but Don't Be Deceived.



**\$28.75**

**THE PRICE  
IS RIGHT**

### TO OUR FRIENDS AND CUSTOMERS—READ THIS:

During the past few years we have had a great many inquiries from our friends and customers, asking whether we sold a Cream Separator and we have always been obliged to answer, no, we do not. We are now greatly pleased to announce that we have added the "CHICAGO" Cream Separator to our already long and varied line of merchandise, and are now ready to supply our customers, in need of a Cream Separator, with the best, latest improved and most wonderful Separator known.

The reason we have not sold a Separator sooner, is because we were unable to find a Cream Separator which we believed good enough to stake our reputation on. We wanted to secure a Cream Separator that we could most heartily recommend to our customers. Our idea of a first class machine was, a Separator that had all of the good, strong and desirable features of up-to-date Separators and none of the bad, weak or questionable features. Our experts have searched the country for years to find a Cream Separator of this kind. We did not make these tests hurriedly, instead we have spent years and every one separately, we made note of every point of merit or advantage in every machine and after making these tests and comparisons, these facts were brought out clearly and distinctly. The "CHICAGO" is by far the Leading Cream Separator to-day. It is astonishing how far in advance of all others the "CHICAGO" Separator is.

### HOW THE "CHICAGO" ORIGINATED—

The inventors and manufacturers of the "CHICAGO" Separator started out many years ago manufacturing special machinery, later a new department for repairing all kinds and makes of Cream Separators, was added. They soon had a large Separator repair business worked up, farmers sent in Separators of every make and description for repairing, and in this way they became thoroughly acquainted with the construction and principles of every Separator on the market. They heard the complaints of farmers on every kind of Separator, they also learned the features they praised, they found all of the weak points and strong points, in fact learned the good and bad features of every Separator made.

After gathering all of this information, they struck out with the aid of a corps of mechanical experts to build a Cream Separator of their own. Experience had taught them what was good and what was bad in a Cream Separator, they knew what was good and adopted it, they also knew what was bad and avoided it. When the Separator was completed, expert mechanics pronounced it a masterpiece. For the past few years, these machines have been sold in almost every state in the Union and in many parts of Canada and are recognized as the leading Separators wherever used.

### THE MARVELOUS NEW COMPOUND DISC SKIMMING DEVICE—THE SMALLEST BOWL OF ANY SEPARATOR IN THE WORLD—

The Bowl is the principal part of any Cream Separator, as in it is done the Separating, the thoroughness of which largely determines the value of the Separator. The Farmer and Dairyman wants a Separator that will skim, and if possible he wants it to take the last drop of Cream from the milk. That is exactly what the "CHICAGO" Separator will do. There are of course other Separators that will skim fairly well under favorable conditions, but they must in every case provide a great deal of space by making a long, wide and top heavy Bowl and add almost innumerable Discs and contraptions of all kinds and descriptions and consequently have a Bowl which can not long remain in balance, if in fact they can be balanced at all. A Bowl that will cause the machine to run heavy, wear out Bearings, break Neck-Bearing Springs and be a source of constant trouble and expense. The tendency of all Separator improvements in recent years has been to reduce the size of the Bowl, some manufacturers have succeeded to reduce the size of their Bowl to a limited extent, but our "CHICAGO" Separator to-day has the smallest and most practical Bowl in the world.

**THE BOWL** of the "CHICAGO" Separator is absolutely the most wonderful invention the Separator world has ever known or heard of. It is less than half as large as most others, skims more than twice as much milk in the same time than most others and does it more thoroughly. These are not mere statements but actual facts, and we can prove it. No more long, top-heavy Bowls to get out of balance; no more large clumsy bowls to vibrate, buzz and wear out the bearings; it is a thing of the past since the "CHICAGO" appeared on the market. Just think of it—the largest size "CHICAGO" of 1,000 lbs. capacity per hour, is only four inches long. If we were to make our Bowl as large as most other makers of Cream Separators do, we could skim from 3 to 5 times as much milk in the same time and do it more thoroughly than most of them do.

The "CHICAGO" is able to skim milk cleaner, faster, easier and more of it with a smaller bowl, because of its wonderful and unique construction of the BOWL and SKIMMING DEVICE. Our bowl is the result of many

years of experience and experimenting by a corps of mechanical experts, the Edisons of the Separator world, and as it now stands perfected, is many years in advance of any other. The Compound Discs used in our Skimming Device are wonderfully effective, and by them the currents are perfectly controlled from the time the whole milk enters the Bowl until the skim milk and cream leave it by their respective exits. The milk is divided into many thin sheets or layers, giving the centrifugal force chance to separate the particles of butter fat from the skim milk, three times as easily as if the milk were left in bulk while the contact

of the moving particles of cream and milk, each striving to reach their respective level, impelled by centrifugal force, is reduced to a minimum; the currents are directed in such a way that the space is actually used twice and practically all of the cream is separated from the milk the moment it enters the bowl. It makes but little difference to our skimming device whether the milk is warm or cold. It is however understood by all practical dairymen that it is best to separate milk as soon after milking as possible; as it then is in its most natural state.

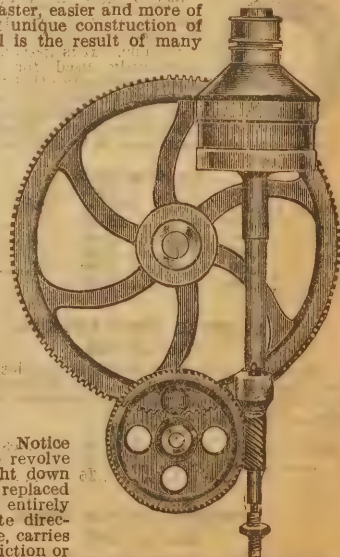
### OUR LATEST IMPROVED GEARING SYSTEM—

Our gears are all made of the best known material and are accurately and perfectly cut. All Gears are amply protected so that nothing can catch in same and all dust and dirt are kept out. There are only two points of meshing, or contact, in our Gearing. In most others there are three or four. That is one of the reasons why the "CHICAGO" runs so easy. The face of every Gear is wide, yet they are designed with extreme nicety and are wonderfully long lived and smooth running.

We call your particular attention to the way in which we apply the power with our Gears to revolve the Bowl. Notice the Worm Wheel and Worm Spindle. In other Separators the Worm Wheel bears down on the Worm Spindle to revolve the Bowl, consequently the whole pressure from the Crank and the entire weight of the Bowl are forcibly brought down upon the Lower Bearing Pin or Ball causing a great deal of friction, and wear, so that the Pin or Ball must be replaced very frequently and the machine runs very hard. The system of applying the Power with our Gears has been entirely changed. Instead of the Worm Wheel running forward and bearing down on the Pin or Ball, it turns in the opposite direction and raises up on the Worm Spindle, doing away with all the pressure from the Crank, and it, at the same time, carries almost the entire weight of the Bowl, so that practically all of the weight is suspended in the air and there is no friction or wear on the Lower Bearing and Pin. We have reasons to be justly proud of this system. It causes the Separator to run very easy and at the same time aids greatly to make the Separator wonderfully long lived.

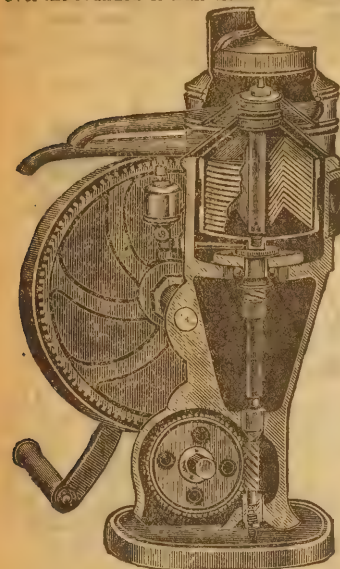
### THE "CHICAGO" HAS A SELF BALANCING BOWL—

This is one of the greatest features ever heard of in Cream Separator construction. Most every one who has ever used a Cream Separator has experienced a Bowl going out of balance and knows that the Bearings are quickly worn out by a Bowl of this kind and that the expense and inconvenience he is put to is no small matter. Nothing of that kind can ever happen with a CHICAGO Separator; the reason is the unique construction of our





Bowl. The entire Bowl is made out of one solid piece, the shell and bottom is made of the highest grade tough, forged steel, the Spindle is ample in thickness and is made of High Carbon Tool Steel welded to the Bowl by Electricity. The Bowl is very short, from two to four inches long, and the High Carbon Tool Steel Stem or Spindle is correspondingly long so that it has perfect control of the Bowl at all times. The Gearing can not interfere with the running or balance of the Bowl as we use the two piece Worm Spindle and the Bowl Spindle is made with a rounded hole in the lower end which sets over the rounded or Ball head of the Worm Spindle and is at all times free to center up and maintain its balance like a top.



Another feature with our Bowl that must not be overlooked is the way our Bowl Head is fastened to the Bowl. There are no threads to wear out and turn past the Balance mark. Our Bowl Head is set on the Bowl and drawn down by a center Rod. If our Bowl was used for 50 years the Balance weights would never be shifted as the Bowl Head must go on the same way every time. You can absolutely rely on the "CHICAGO" Separator Bowl being in balance at all times.

The self balancing feature in our machine alone will save the users of Cream Separators in this country a great deal of money and annoyance.

**THE FRAME**—Look at the picture of the "CHICAGO", note the extra strong frame made of finest gray iron, cast in one solid piece. It is not simply a lump of cast iron, but neatly designed, well proportioned, with the strength placed just where it is needed. The base is cast in two pieces, is detachable and bolted to the main frame. It has no flat base under which oil and dirt can gather, but stands on four legs, which are thoroughly braced above the bottom, which permits one to wash and sweep around and under it easily and so keep the surroundings sweet and sanitary. There are only three pieces to the entire main frame, no swaying or weaving with our construction, but instead it is perfectly rigid. **The frame is beautifully finished in dark blue enamel and decorated artistically with gold and silver stripings.**

**NOTICE. THE SUPPLY CAN**—It is low down and made from a single piece of high grade steel, heavily tinned and retinned. There are no seams or soldered joints, no corners, no place for dirt to catch, perfectly sanitary, made of heavy material and should wear forever.

**LOOK AT THE X-RAY PICTURE OF OUR MACHINE**—Which shows every part of the Separator as it would look if the Separator were cut in two. Examine it carefully; the more you know about our Cream Separator the more you will like it.

Notice that the milk flows from the Supply tank directly into the Feed Cup, where it is regulated by a float which keeps the Cup from over-flowing and at the same time makes the milk flow steadily into the Bowl. The milk drops from the Feed Cup directly into the bottom of the Bowl, where it is first cleaned and purified, and then separated by centrifugal force with our most wonderful skimming device, the most perfect the world has ever known.

The skim milk, perfectly separated without a drop of Cream left in it, passes out through a crease in the head of the Bowl and into the skim milk pan, then through the milk spout to the can or pail provided. Please note that none of the skim milk is left in the Bowl pot or frame of the Separator, therefore nothing but the Bowl and tinware need ever be washed.

The Cream comes out of a groove in the top of the bowl head and by simply turning a small screw the cream can be set in a moment to any desired density, either thick or thin.

**EASY RUNNING**—We claim and are prepared to prove, that the "CHICAGO" Separator is one of the easiest running, first class Separators on the market to-day, there is no Separator made that will run any easier. This result is brought about by our perfect oiling system, our small and perfectly balanced bowl, our superior flexible Neck-Bearing, perfectly cut gears, our genuine bronze bearing, low speed, our wonderful system of applying the Power to revolve the Bowl, and because we have reduced all friction to a minimum. A boy can operate the "CHICAGO" with ease.

Our largest size "CHICAGO" Separator of 1,000 lbs. capacity does not run any heavier nor as heavy as most other Separators of 500 lbs. capacity. You can absolutely depend upon this.

**THE BEARINGS**—The bearings are all made of Phosphor Bronze, which is the best material known for the purpose. Its wearing qualities are wonderful and it is almost frictionless. We use the Phosphor Bronze wherever there is a bearing, as it is necessary to make the best machine. Many other makers of Cream Separators simply use cast iron bushings for the slow bearings.

**WASHING THE DISCS**—This illustration shows how the discs are washed. The number of discs used in our Separator is less than half that of most other makes of Cream Separators, and the washing arrangement, as shown in the cut, is absolutely the best. With our arrangement there is no mixing of Discs, when the core is removed from the bowl, the entire body of discs is slipped onto the transfer at the same time, then shaken apart as shown in the illustration, and all rinsed in water at the same time, then hung to dry. It is not necessary to assemble these discs one by one. Instead they are all put on the core at the same time, as they never get out of line. We challenge all other makers of Cream Separators to produce as fine a washing system as is found in the "CHICAGO".

**OUR WONDERFUL NECK-BEARING**—The neck-bearing in a Cream Separator is one of the all-important parts, and few, if any, of the Separators on the market to-day have a neck-bearing that comes anywhere near answering the purpose intended. As can be seen in the X-Ray picture, the neck-bearing in our machine, which is made of Phosphor Bronze, is supported by a thick rubber ring which is adjustable and allows the Bowl its necessary vibration. This heavy rubber ring is supported by a heavy one-piece coil-spring and adjustable lock-nut. This is the most perfect flexible neck-bearing yet devised. Always in the center, always lines up, no wobbling of the Bowl, no breaking of Springs. Think of it a Cream Separator with no neck-bearing springs to break or get out of order or line, a bearing that can be loosened or tightened in a few seconds' time and that without removing any part or parts. Anyone who has ever used a Cream Separator knows what is gained by this arrangement.

**THE "CHICAGO" MADE IN A WIDE RANGE OF SIZES**—A machine suitable in size to every dairy in the country. It does not matter whether you have one or 100 Cows, we have a size that will suit your needs. The "CHICAGO" is the only Separator that can be made in strictly hand sizes up to 1,000 lbs. capacity per hour; others have tried it but never got a machine any larger than 600 lbs. capacity per hour that came anywhere near being a success. Some tried to make a 700 lb. size, but had to discontinue because they were a failure. That is because they do not have an efficient skimming device and are of old style, back number kind. The Bowl in our 1000 lb. capacity Separator is not as large and does not run as heavy as most other makes of Separators of 400 to 500 lbs. capacity. If we were to use as large a Bowl in our "CHICAGO" as some manufacturers do in their 600 lb. capacity we could skim from three to four times as much milk in the same time and in the same size Bowl, and would skim it more thoroughly. These are not mere statements, but actual facts and we can prove it.

When we tell you a certain machine is 700 to 750 lb. size, that means that you will get a Separator that will actually skim from 700 to 750 lbs. of milk per hour. Many other makes of Separators for which a certain capacity is claimed, fall short. The regular price figures which we give you are the actual prices many of the other manufacturers charge you for the same size machine, that is not nearly as good as our "CHICAGO". Just figure what we save you.

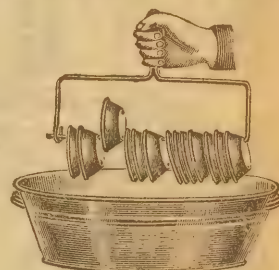
**ABOUT THE PRICE**—We have placed the price as low as is consistent with the very best workmanship and material. There are, no doubt, some lower priced machines on the market, but they fall so short of doing what they are promised to do that they would be really high priced at much less than the price they ask for them. These cheaper machines are made with the idea that you will find any Centrifugal Separator better than none at all, and they will show an increase over the old setting or gravity system and therefore they believe you will keep them anyway.

**OUR PRICES**—The lowest ever made, on the highest grade separator ever produced—We can furnish the "CHICAGO" in the following sizes and at the following prices:

<p><b>SIZE No. 1</b> <b>CHICAGO CREAM SEPARATOR</b> Capacity 250-300 lbs. per hour. Our whole-sale price ..... <b>\$23.75</b> Retail dealers would ask you \$60.00 for this Separator.</p>	<p><b>SIZE No. 3</b> <b>CHICAGO CREAM SEPARATOR</b> Capacity 600-650 lbs. per hour. Our whole-sale price ..... <b>\$43.65</b> Retail dealers would ask you \$90.00 for this Separator.</p>	<p><b>SIZE No. 5</b> <b>CHICAGO CREAM SEPARATOR</b> Capacity 800-850 lbs. per hour. Our whole-sale price ..... <b>\$69.95</b> Retail dealers would ask you \$115.00 for this Separator.</p>
<p><b>SIZE No. 2</b> <b>CHICAGO CREAM SEPARATOR</b> Capacity 350-400 lbs. per hour. Our whole-sale price ..... <b>\$34.95</b> Retail dealers would ask you \$75.00 for this Separator.</p>	<p><b>SIZE No. 4</b> <b>CHICAGO CREAM SEPARATOR</b> Capacity 700-750 lbs. per hour. Our whole-sale price ..... <b>\$53.75</b> Retail dealers would ask you \$100.00 for this Separator.</p>	<p><b>SIZE No. 6</b> <b>CHICAGO CREAM SEPARATOR</b> Capacity 950-1,000 lbs. per hour. Our whole-sale price ..... <b>\$66.45</b> Retail dealers would ask you \$125.00 for this Separator.</p>

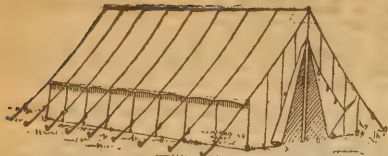
**OUR GUARANTEE**—We guarantee the CHICAGO to be built of the best material possible in Cream Separator construction. We guarantee it to be absolutely free from flaws of any kind at the time of delivery. Should any flaws be found, we agree to replace the parts in which the flaws are found free of charge to you for twenty years.

**WHAT SIZE MACHINE TO BUY**—We want to advise every one of our customers to buy one of the larger sizes of our Separator. Always buy a machine a little larger than you now need, as you may increase your herd and then you will need the larger size. Another thing we want to impress firmly is this: Our large size machines are not big and clumsy—they are strictly hand machines. The 1,000 lb. machine is very little larger than our 250 lb. machine and is handled just as easily in every respect. The largest Bowl is only four inches long and therefore runs very little heavier than the small machine. With one of the large capacity machines you can separate your milk in less than one-fourth the time required for separating with the small size machine. Therefore there would be only one-fourth the wear on the large machine that there would be on the small one. Then, too, you are at all times prepared should you enlarge or increase your herd. The difference in price is not great and we believe it will surely pay anybody to get the larger sizes instead of the smaller ones. It will pay both in time and wear of machine.





# TENTS AND CANVAS COVERS



The rope used in our tents is the very best grade of manila. Every seam is roped. They are reinforced with double thickness of canvas at both ends of the ridge which are supported by the pole. This prevents tearing. Every seam is double stitched and storm lap is full size and heavily reinforced. Tents in sizes up to 12x12 ft. can be shipped immediately. The larger sizes are made to order, and ordinarily they can be made up and shipped within 3 to 5 days. However, in the season when tents are in great demand during June and July, on sizes that are made to order shipment can be made within 5 to 8 days. All tents and covers, as well as other similar merchandise offered by us, are guaranteed to be exactly as represented.

## "PREMIER" WALL TENTS.

No. 4-A-435. The prices which we quote on these do not include Flies. A tent fly is an extra removable roof to a tent and affords a greater protection from sun, and rain. We will furnish the flies at one-half the price of the tent.

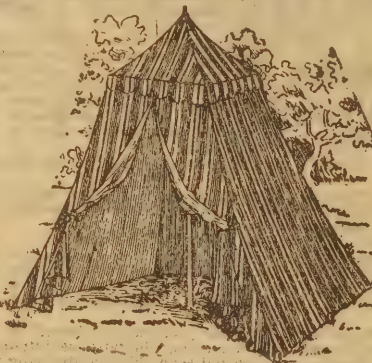
Where the poles are not required, deduct 5% from the price of the 8 oz. tent in the size required.

Where a higher wall than is regularly furnished with a tent is required, add 5% to the cost of the tent for each additional six inches. Prices complete including poles, pegs, guys, ropes, etc., ready to set up.

Length and Breadth	Height of Wall	Height of Pole	8 oz. Single Filling Duck	10 oz. Single Filling Duck	12 oz. Single Filling Duck
7x7	3	7	\$4.80	\$5.62	\$6.82
7x9	3	7	5.70	6.63	7.90
9x9	3	7	6.60	7.80	9.65
9x12	3	7	7.80	9.00	11.00
9x14	3	7	9.00	10.25	12.45
12x12	3	8	9.35	10.80	13.15
12x14	3	8	10.60	12.50	15.00
12x16	3	8	12.00	13.75	16.75
12x18	3	8	12.85	15.50	18.50
14x14	4	9	13.00	15.25	18.00
14x16	4	9	13.35	16.50	19.65
14x18	4	9	15.65	18.00	21.50
14x20	4	9	16.00	19.00	22.00
14x24	4	9	19.25	22.00	25.50
16x16	5	11	16.85	19.80	23.94
16x18	5	11	18.60	22.00	25.45
16x20	5	11	20.50	24.00	28.50
16x24	5	11	23.40	27.00	31.85
16x30	5	11	27.25	32.50	37.80
18x20	5	11	22.90	27.00	31.45
18x24	5	11	25.00	29.75	34.35
18x30	5	11	28.60	34.00	39.85
18x35	5	11	33.00	40.00	45.90

## PALMETTO LAWN TENTS.

No. 4-A-436. Are very desirable for children, lawn, and croquet parties. They are made of 8 oz. striped material and are set up with a light iron frame which is sewed into the tent around the top. We guarantee our tents to be full size and weight.



Size of Base	Size of Top	Height in Center	Height at Side	Price
7'x7'	2' 4"	7' 6"	6'	\$4.50
8'x8'	2' 4"	8'	6' 6"	5.50
10'x10'	3' 6"	9'	7' 6"	7.25

## "A" OR WEDGE TENTS.

No. 4-A-437. Furnished complete with poles and stakes. Guaranteed full weight and size. Nothing better manufactured.

Where poles are not required, deduct 5% from price of 8 oz. tent in the size ordered.



Length and Breadth	Height of Pole	8 oz. Single Filling Duck	10 oz. Single Filling Duck	12 oz. Single Filling Duck
7x7	7	\$4.20	\$5.00	\$5.85
7x9	7	5.00	5.95	6.98
9x9	7	5.55	6.65	7.85
9x12	7	6.75	8.10	9.48
12x14	9	10.00	11.65	15.00

## MINERS' TENTS.



No. 4-A-439. Can be used as a Lawn Tent. Complete with center pole.

Size of Base	Height	8 oz. Single Filling Duck	10 oz. Single Filling Duck	12 oz. Single Filling Duck
7x7	7	\$3.05	\$3.65	\$4.25
9x9	8	4.37	5.20	6.10
12x12	9	6.67	7.70	11.66

## HIP ROOF REFRESHMENT TENT.

No. 4-A-439. These tents are made in the best possible manner, thoroughly roped where strength is required and are otherwise manufactured in the same high grade manner as our Premier Wall Tents. They are furnished complete with poles, stakes, guy ropes, etc. Are heavily reinforced at the corners, and also at either end of the ridge. They are not carried in stock, but are made to order only. Shipment can be made within one week.

Length and Breadth	Height of Wall	Height of Pole	8 oz. Single Filling Duck	10 oz. Single Filling Duck	12 oz. Single Filling Duck
9x14	6	10	\$13.45	\$15.50	\$18.00
9x16	6	10	15.00	17.00	19.75
9x19	6	10	16.80	19.25	22.25
12x19	6	11	18.50	21.00	24.65
12x21	6	11	22.20	25.20	29.40
14x21	6	12	22.75	26.50	30.25
14x23	6	12	25.75	30.75	35.25



## CANVAS COVERS OR PAULINS.

No. 4-A-440. For covering Harvesters, Binders, Threshing Machines, Hay Stacks and all kinds of Machinery.

Each seam is sewed with double twisted thread. They are guaranteed to be full size and made of full weight duck. Have eyelets around sides and are furnished with short ropes.

Size Feet	8 oz. Single Filling Duck	10 oz. Single Filling Duck	12 oz. Single Filling Duck
10x16	\$2.95	\$3.65	\$4.25
10x18	3.25	4.00	4.75
12x14	3.20	3.95	4.65
12x16	3.75	4.50	5.50
12x18	4.10	5.00	6.00
12x20	4.50	5.50	6.50
14x16	4.40	5.40	6.40
14x18	5.00	6.00	7.00
14x20	5.45	6.50	7.90
14x24	6.50	8.00	9.35
16x24	6.00	7.35	8.60
16x28	7.50	9.00	10.50
18x20	7.00	8.50	10.00
18x24	8.00	10.00	12.00
20x24	9.00	11.00	13.00
20x36	13.00	16.25	19.50
24x30	13.00	16.00	19.00
24x40	17.00	21.00	21.95
24x50	13.30	26.50	31.85





# Premier Church and School Bells

These bells are made of a special composition of metal and in the manufacture special attention is given so the proper proportions of the different metals are used in order to give a mellow sound and at the same time give a penetrating, powerful tone. A rigid inspection of each and every part of our bells is made before shipment, and any bell ordered from us may be returned at our expense if not entirely satisfactory.

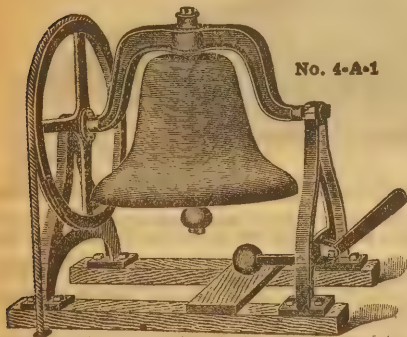
The Premier bell is artistic in construction, composition of metals and the diameter being in harmony with the weight of the bell, and overcomes the liability of its breaking. In making up compositions for our bells the tone best adapted for the purpose for which the bell is intended is carefully taken into consideration, the sound varying from the sharp piercing bell suitable for farm and school, to the voluminous, deep ringing of the church bell.

We guarantee every bell that leaves our factory to be perfect in tone, material and workmanship. All bells are guaranteed against breakage with ordinary use within five years from date of purchase.

Should a bell break within the time specified, we bind ourselves to furnish a new one free of charge on delivery of the broken casting at our factory. In case of breakage after the time our warranty has expired we will allow for the broken bell, without mountings, one-half its price in exchange for a new one.

Our bells are finished with a rich copper preparation, which not only adds very much to their appearance but protects them from the weather. The mountings are finished in black enamel. In ordering, remember the larger the bell the deeper and more mellow the tone it will produce. A deep mellow tone cannot be obtained in a small bell.

## Premier Church Bells.



No. 4-A-1

These bells are made of special composition metal and will produce a full, rich, mellow tone. There is no church that can afford to be without a bell, especially at the very low prices which we are quoting. You are protected in the purchase of these bells by our five year guarantee, and further than this, should you buy one of these bells from us and the tone is not satisfactory it can be returned to us. In purchasing a bell it is better to select a large one, as the larger the bell, the more satisfactory tone it will produce and the greater the distance it can be heard. Bells in sizes 44 inches and larger are fitted with special roller bearings, making it possible to ring these larger bells with perfect ease.

All church bells are furnished complete with tolling hammers, equipped with a perfected spring to overcome the rebound of the clapper. These bells are shipped from our factory in Southern Ohio.

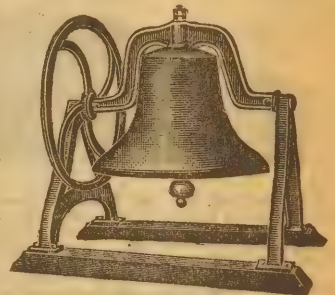
Weight lbs. bell			Weight lbs. bell		
Diameter	and Mount-	Price	Diameter	and Mount-	Price
Inches.	ings complete.	Each.	Inches.	ings complete.	Each.
24.....	260.....	\$10.75	36.....	950.....	\$38.25
26.....	360.....	14.60	38.....	1010.....	46.25
28.....	460.....	19.75	40.....	1300.....	52.75
30.....	570.....	24.00	44.....	1790.....	79.25
32.....	645.....	25.50	48.....	2280.....	99.00
34.....	760.....	30.00			

Prompt shipments and careful packing, thereby insuring a safe delivery, are some of the methods that have placed us in the foremost ranks of the great commercial institutions of the age.

## School Bells.

No. 4-A-2. Suitable for Schools, Colleges, Court House and Other Public Buildings.

We are offering exceptional values in the line of school house bells. Every bell is guaranteed to give perfect satisfaction. The mountings of these bells have no unnecessary parts to get out of order, once hung, needing no further attention with the exception of oiling occasionally. They are constructed in such a manner so as to work with perfect ease. Every bell is provided with adjustable springs, permitting the clapper to strike with sufficient force and then holding it away so that the vibration is uninterrupted. These bells are shipped from factory in Southern Ohio.



No. 4-A-2

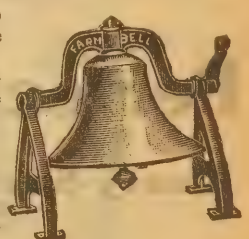
Weight lbs. bell			Weight lbs. bell		
Diameter	and Mount-	Price	Diameter	and Mount-	Price
Inches.	ings complete.	Each.	Inches.	ings complete.	Each.
20.....	165.....	\$ 6.00	34.....	765.....	\$28.25
22.....	205.....	7.50	36.....	950.....	36.00
24.....	250.....	9.50	38.....	1010.....	43.95
26.....	350.....	13.50	40.....	1300.....	50.50
28.....	450.....	18.40	44.....	1790.....	77.00
30.....	570.....	22.10	48.....	2280.....	97.00
32.....	640.....	23.60			

## Farm Bells.



These bells are made of a special mixture which insures a sweet, clear tone and we guarantee that they are the clearest ringing farm bells manufactured.

We offer these bells in four sizes. Nos. 1, 2, and 3 are designed to be mounted on a post.



Size No. 4 requires a platform.

No. 4-A-3				
Size No.	1	2	3	4
Diameter Inches.....	15	17	19	21
Wt. complete lbs.....	40	50	75	100
Price each.....	\$1.05	\$1.47	\$2.00	\$2.65

## Whitewash and Painting Machines.

Painting and whitewashing by machinery reduces the cost of painting and whitewashing to a minimum. We offer our customers the finest, cheapest and best whitewashing and painting machine ever placed on the market.

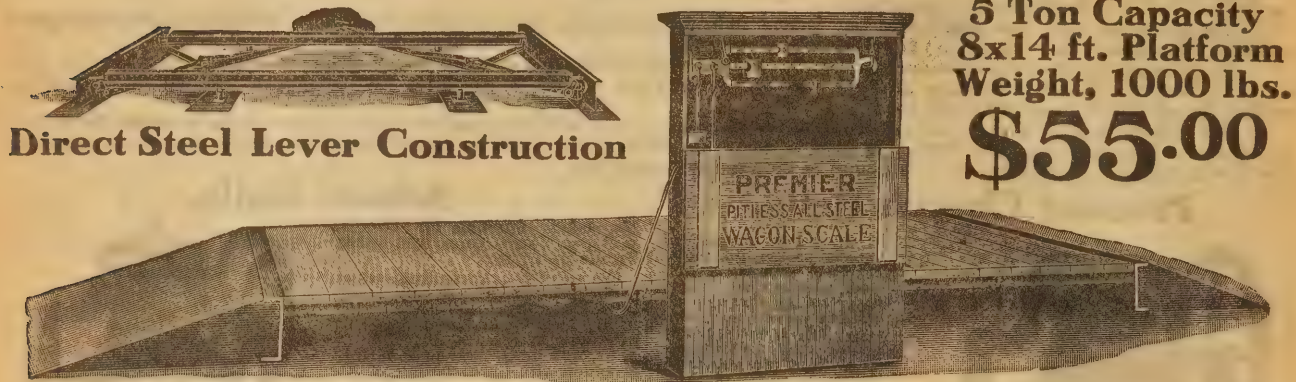
**Construction:** The body is made of No. 24 gauge, galvanized steel, and is fitted with a first-class ball valve, brass cylinder pump which will produce a high pressure. It is fitted with an agitator which works at every stroke of the pump and keeps the solution thoroughly agitated. The top is easily removed when you wish to clean the machine. It is guaranteed to be the most practical machine offered and entirely satisfactory. Furnished complete with solution strainer



- No. 4-A-1540. Size No. 6—10 gallon, galvanized iron Whitewash and Painting Machine complete with 10 foot of high-grade  $\frac{1}{4}$ -inch hose, one nozzle and one 8-foot extension rod, price..... \$12.00
- No. 4-A-1541. Size No. 7—18 gallon, galvanized iron Whitewash and Painting Machine complete with 10 foot of high-grade  $\frac{1}{4}$ -inch hose, one nozzle and one 8 foot extension rod, price..... \$15.00
- No. 4-A-1542. Size No. 106—Similar in construction to the trunks above described and are complete with 4 foot of  $\frac{1}{4}$ -inch hose, 4 foot iron extension rod, strainer and brass body pump; 6 gallon, galvanized reservoir, price..... \$13.00
- No. 4-A-1543. Size No. 106—All brass reservoir, complete with 4 foot of hose, 4 foot extension rod, strainer and brass cylinder pump, price..... \$13.00
- No. 4-A-1544. Extra hose, per foot..... .08
- No. 4-A-1545. Single nozzle, price..... .75
- No. 4-A-1546. Double nozzle, which we recommend for quick work, price..... \$1.60
- No. 4-A-1547. Extra washers, per set..... .80



# Premier Pitless All Steel Wagon Scale



**5 Ton Capacity**  
**8x14 ft. Platform**  
**Weight, 1000 lbs.**  
**\$55.00**

This is an all steel Pitless Wagon Scale which is strictly high grade in every particular. It has a direct steel lever construction, an improvement not found in any other type of Pitless Wagon Scales.

This scale is provided with combination three-bar solid brass beam carefully graduated to the full capacity of scale, thus requiring no loose weights to get loose or out of seat. Beam and poises are all finely polished and marks are large and distinct. Beam and lever pivots throughout the scale are the best tool steel, drawn to a knife edge and carefully tempered.

The ends of the scale frame are made from a heavy steel channel beam connected by tubular steel cross pieces which support steel levers in frame of scale. Scale levers are made from a single piece of heavy T shaped rolled steel and held in scale frame by best tempered tool steel pivots.

Heavy steel I-beams support platform and are held in place by hardened bearing feet supported on levers by best grade tempered tool steel pivots. The beam box is made of one inch selected tongued and grooved lumber, well constructed and nicely painted. Each beam box is provided with heavy wrought hinges and flat key lock.

This scale is the best and highest grade Pitless Wagon Scale made and is suitable for farms or commercial use where scale is subjected to hard usage. We furnish this scale complete with beam box, which is carefully crated and boxed for shipment, with full and plainly printed instructions for setting up and installing. Purchaser being required to furnish only platform planks.

We guarantee this scale to be sealed to U. S. standard weights and to weigh accurately. We further bind ourselves to replace any part that may become broken through defective material or workmanship without cost to the purchaser. Should scale not be in every way as represented, it may be returned any time within one year.

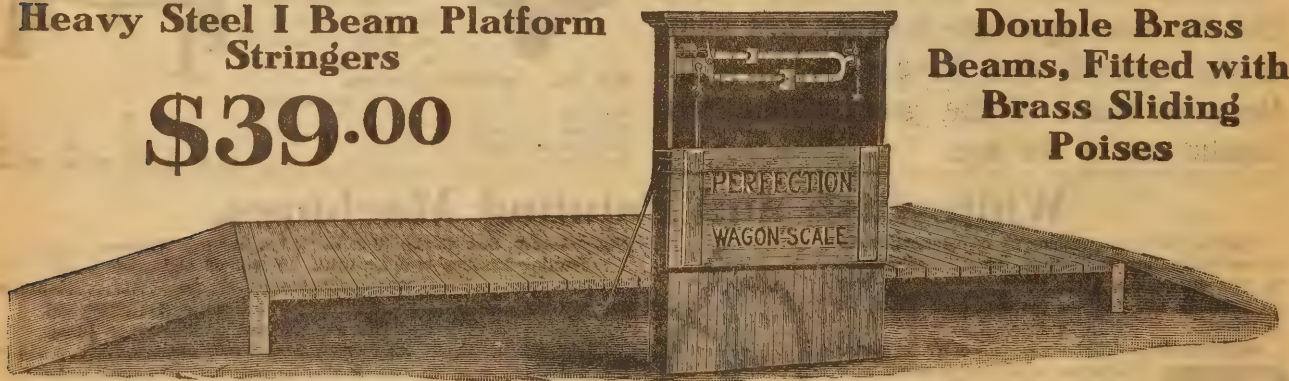
Shipped direct from factory in Southern Michigan.

No. 4-A-562. Capacity, 5 tons. Size of platform, 8x14 feet. Weight, 1,000 pounds. Price, .....\$55.00

## Perfection 5-Ton Pitless Scales

**Heavy Steel I Beam Platform Stringers**

**\$39.00**



**Double Brass Beams, Fitted with Brass Sliding Poises**

Our new five ton Perfection Pitless Wagon Scale with solid double brass beam is an accurate and durable scale, suitable for all ordinary uses. The scale is provided with full capacity double brass beam fitted with brass sliding poises. The levers are made from "T" shaped rolled steel and are supported in frame of scale by tubular steel cross pieces, which hold wood end sills in place.

The platform stringer is made from a heavy steel I-beam and supported on levers by carefully chilled bearing feet. The beam and lever points throughout the scale are heavy tool steel ground to a knife edge and carefully hardened, thus insuring sensitiveness, accuracy and durability to all parts of the scale where strain is greatest.

The beam box is of good material, well painted and provided with lock and key.

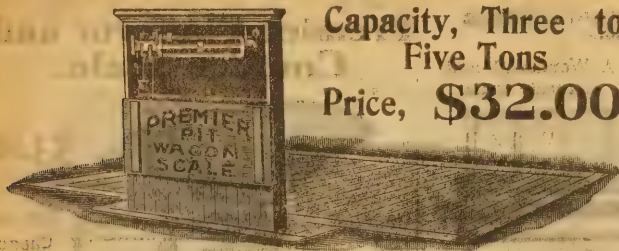
We furnish this scale with all brass and iron parts, including beam box, complete, carefully crated and boxed for shipment, with full and plain printed instructions for setting up and installing. The purchaser is required only to furnish the platform planks, two wood end sills, 3 inches thick, 12 inches wide and 6 feet long and one platform stringer 6 inches thick, 8 inches wide and 14 feet long.

The printed directions show and describe how all wood parts are cut and how foundations should be constructed. Our Perfection Steel Pitless Scale is guaranteed to be sealed to U. S. Standard weights and to weigh accurately. Shipped on cars, factory in Southern Michigan.

No. 4-A-561. Capacity 5 tons, Size of platform 8x14 feet. Shipping weight, 675 pounds. Price, .....\$39.00



# PREMIER PIT WAGON SCALES

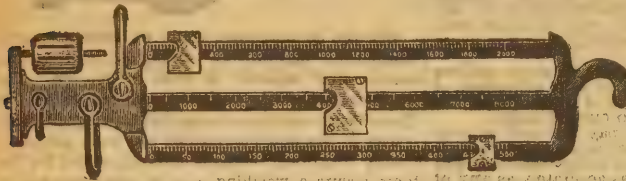


Capacity, Three to  
Five Tons  
Price, \$32.00

TWO BAR SOLID BRASS BEAMS.

The upper bar is graduated to 1,000 pounds by 5 pound marks, and the lower bar to 9,000 pounds by 500 pound marks.

The beam pivots are the finest tempered tool steel provided with hardened friction steels that prevent all binding and work on the beam and beam loops.



Lever is of T shaped steel and the long lever is trussed, as this lever has double the strain of the short lever. Sealed to U. S. standard weights. Carefully crated and boxed for shipment, complete, with printed directions for setting up and installing.

We guarantee that this scale will weigh accurately and will replace any part that may become broken through defective material or workmanship without cost to the purchaser.

Shipped direct from factory in western New York.

No. 4-A-563. Capacity, 3 tons. Size of platform, 8x14 feet. Equipped with double brass beam. Shipping weight, 550 lbs. Price, \$32.00

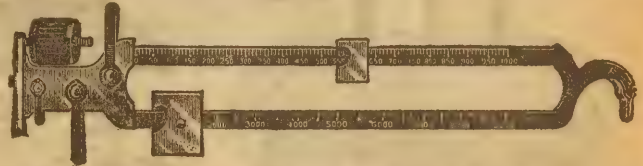
No. 4-A-564. Capacity, 4 tons. Size of platform, 8x14 feet. Equipped with double brass beam. Shipping weight, 575 lbs. Price, \$35.00

Guaranteed for ten years. This is a strictly high grade weighing machine in every particular. The long levers are trussed and the bearings are of tool steel carefully tempered.

We furnish the Premier Pit Wagon Scale with double or triple full capacity combination beams. Size of platform is 8x14 feet. Beam box is made of selected one-inch tongued grooved lumber painted with two coats of best lead paint with 1 1/4-inch moulded top.

In offering this scale we have not attempted to compete with the lower priced scales in the market. We are offering a scale constructed in the best possible manner, all parts carefully built and one that will weigh accurately at all times. A scale that is in every sense suitable for commercial as well as farm purposes.

The beams are solid brass finely milled and polished with brass front sliding poises. It is graduated to full capacity of scale and there are no loose weights to get loose or out of seal.



The combination 3 bar solid brass beam is carefully graduated to full capacity of scale, thus requiring no loose weights. The upper bar of the combination 3 bar solid brass beam is graduated by 10 pound marks to 2,000 pounds capacity and has brass faced sliding poise provided with set screw so that it can be fastened at any point when used for tare poises or otherwise.

The lower bar is graduated to 500 pounds by 2 1/2 pound marks and has brass sliding poise. The middle bar is graduated to balance the capacity of scale by 500 pound notches and is provided with brass faced sliding poise fitted with steel pin which drops in notches. This poise is sealed on each notch making any variation in weight impossible.

Beams and poises are all finely polished and marks are large and distinct.

No. 4-A-565. Capacity, 5 tons. Size of platform, 8x14 feet. Equipped with double brass beam. Shipping weight, 590 lbs. Price, \$40.00

No. 4-A-566. Capacity, 3 tons. Size of platform, 8x14 feet. Equipped with 3 bar combination brass beam. Shipping weight, 565 lbs. Price, \$36.00

No. 4-A-567. Capacity, 4 tons. Size of platform, 8x14 feet. Equipped with 3 bar combination brass beam. Shipping weight, 590 lbs. Price, \$39.00

No. 4-A-568. Capacity, 5 tons. Size of platform, 8x14 feet. Equipped with 3 bar combination brass beam. Shipping weight, 610 lbs. Price, \$44.00

## ACME SINGLE BEAM PLATFORM SCALE \$7.00

Acme portable platform scale shown in the accompanying illustration is intended for those who wish a good scale for general purposes at a medium price.

Each scale is sealed to U. S. standard weights and guaranteed to weigh accurately. The material used throughout this scale is of the very best. The castings are made of high grade gray iron and are extra heavy, finished in black Japan. Pillar and pillar caps are made of kiln dried selected hardwood and finished with two coats of royal blue paint, nicely striped and varnished.

The lever pivots are made of high grade tool steel drawn to a knife edge, carefully tempered, causing the scale to act quick and sensitive.

The beam and sliding poise are of solid brass, both being milled and polished. Sufficient loose weights are furnished with each scale to balance it up to its capacity.

All scales are carefully packed for shipment with complete instructions for setting up.



Guaranteed to weigh accurately

Capacity Lbs.	Size of Platform	Shipping Weight	Price Each
No. 4-A-540. 600	16 1/2 x 24	150	\$ 7.00
800	17 x 24 1/2	160	8.25
1000	17 1/2 x 25	170	9.00
1200	18 x 26	210	10.00
1500	20 x 28	250	12.50
2000	25 x 33	365	16.50
2500	25 x 34	375	17.75

## Premier Double Beam Platform Scale \$10.00

Our Premier portable double beam platform scales are the most accurate, sensitive and durable scales on the market, and the fact that they have a double beam enables the user to equalize the weight of any scoop, box, rack or crate, thus securing net weights of any thing that is being weighed or any receptacle that is being used on the platform. The main platform and levers are made of smooth gray iron, extra heavy and of ample weight and strength, all iron parts being finished in black Japan. The pillar and pillar caps are of the best hardwood painted with two coats of royal blue paint and nicely striped. Pivots throughout the scale are of the best tool steel drawn to a knife edge and correctly tempered. The levers are supported in hardened, flexible bearing loops pivotally supported in base frame of scale. The platform carrying the load is supported on levers by hardened, flexible bearings, thus insuring durability to that part of the scale where the work is greatest.

The double beams are of solid brass. Brass sliding poises are highly polished and finished. Furnished complete with loose weight sufficient to balance the scale up to its capacity.

Each scale is sealed to U. S. standard weights, carefully boxed for shipment with printed instructions for setting up.



Most Accurate and Durable Scale on the Market.

Capacity Lbs.	Size of Platform	Shipping Weight	Price Each
No. 4-A-541. 600	16 x 24	160	\$10.00
No. 4-A-542. 800	17 x 24 1/2	170	10.85
No. 4-A-543. 1000	17 1/2 x 25	175	11.25
No. 4-A-544. 1200	18 x 26	245	13.75
No. 4-A-545. 1500	20 x 28	275	15.00
No. 4-A-546. 2000	25 x 33	370	18.50
No. 4-A-547. 2500	25 x 34	375	20.00

The lower bar has a capacity of 2,500 pounds and is graduated in 100 pound marks.



# Warehouse, Counter and Family Scales

## Dormant Warehouse Scales.



Capacity,  
2500 lbs.

**\$45.00**

Strongest  
Constructed  
Warehouse  
Scale  
on the  
Market.

This scale is used in warehouses, factories, depots, etc., for weighing trucks or heavy articles. The platform is flush with the floor. The levers are placed below the floor line. A truck can be run directly on the scale without the use of an incline. The size of platform is 3x5 feet and has a weighing capacity of 2,500 lbs.

The lever construction is very strong and durable. The levers are of T steel supported in scale on tubular steel cross braces. Steel I beams support the platform, thus insuring strength and durability where needed. The illustration shows the floor cut away, showing the internal construction. Scale is made with full capacity combination brass beam fitted with brass sliding poise. The upper bar has a capacity of 150 pounds graduated in one pound marks and is also provided with a tare poise.

No. 4-A-560. Dormant Warehouse Scales, 2500 pounds capacity. Price,.....**\$45.00**

## 72c, 24-lb. Family Slanting Dial Scale.



This scale is of steel construction throughout, enamel and ornamented in aluminum. Weighs up to 24 pounds by ounces.

Five inch white enamel dial with oiled fancy gilt frame. Dial slants at an angle of 45 degrees. The figures of the dial can be seen at a glance without stooping. Each scale guaranteed to weigh accurately and packed in separate

box. Weight, five pounds.

No. 4-A-554. Without tin scoop. Price,....**\$7.72**

No. 4-A-555. Tin scoop for the above scale. Price,.....**12**

## 85c, 24-lb. Spring Counter Scale.

Vertical dial, 24 pounds capacity. This is a strictly higher grade scale guaranteed to weigh accurately up to its full capacity, 24 pounds by ounces.

The dial is five inches diameter, white enamel. The springs are made of the highest grade tempered spring steel. These scales are equipped with a tension screw so they can be evenly balanced. The scale is steel construction throughout, finely finished and ornamented.

No. 4-A-556. Without scoop. Price,....**\$8.85**

With tin scoop. Price,.....**97**



## MILBURN'S COMPUTING COUNTER SCALES.



A Wonderful and  
Accurate Scale.

**\$17.50**

We purchased from the manufacturers their entire stock of the celebrated and perfected high grade Milburn Patented Computing Counter Scale. It represents the acme of perfection. Absolutely the very best and most complete scale of its kind on the market, strictly perfect in every way.

We have 140 of these scales in stock and we would advise that you at once take advantage of our offer. The regular price of these scales was \$40.00 until they came into our possession.

This Scale will positively pay for itself in sixty days. There are no springs to get out of adjustment, and it is fitted with agate bearings, and will weigh and compute as accurately as any of the high-priced, computing scales on the market. Computes fractions of ounces—no figuring required, as the chart shows exactly the amount of purchase.

These Scales are handsomely enameled, and fitted with heavy brass scoops.

To arrive at the correct amount of purchase, slide the poise, which is attached to the price chart, to the number of ounces of merchandise to be purchased. The figure on the chart will show the amount of the purchase in cents.

**For Example:**—If your customer requires  $\frac{1}{2}$  of a pound of an article, selling at 20 cents per pound, you can set the price indicator at the 4 ounce point on the chart, then place in the scoop merchandise until it balances. The figures on the chart will show that the amount of the purchase is 5 cents. The chart is divided into two sections. The first section to the left weighs and computes up to one pound from 5 to 24 cents per pound.

The second section to the right weighs and computes up to one pound, from 25 to 80 cents per pound. All purchases of one pound or less are weighed on the top beam, the poise of which is attached to the price indicator for both sections of chart. For any weight exceeding one pound, you will then use the other beams and weights which are furnished with the scales.

No. 4-A-547. Weighing capacity 30 pounds, computes fractions of ounces from 5 to 30 cents per pound. Price, each,.....**\$17.50**

No. 4-A-548. Weighing capacity 10 pounds, computes fractions of ounces from 5 to 30 cents per pound. Price, each,.....**\$15.00**

## \$1.62 60-lb. Capacity Spring Counter Scale

Spring counter scale, 60 lbs. capacity. This scale is of light steel construction throughout, is enameled and ornamented with aluminum. The dial is of white enamel 8 inches in diameter and the markings are very plain.

We wish to call your particular attention to the double platform supports which evenly distribute the weight, thus causing the scale to weigh accurately. Its capacity is 60 lbs. by two ounces. The platform is 7 1/2 inches square, made of pressed steel reinforced with malleable iron cross castings.

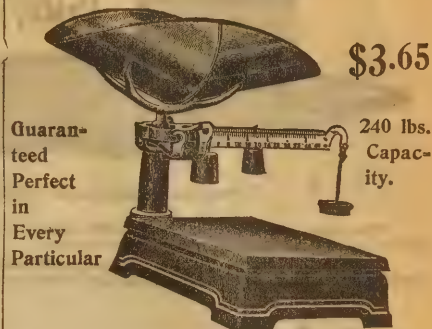
Each scale packed in a wooden box. Shipping weight, 10 lbs.

No. 4-A-557. Spring Counter Scale, without scoop. Price,.....**\$1.62**

No. 4-A-558. Spring Counter Scale, with tin scoop. Price,.....**1.97**



## Premier Platform and Counter Scale.



**\$3.65**

Guaranteed  
Perfect  
in  
Every  
Particular

240 lbs.  
Capacity.

For the general store trade we offer a heavily constructed platform or counter scale, fork and scoop. Full capacity of scale is 240 lbs. The beam is marked in half ounce marks to 44 lbs. Three loose weights make up the capacity of scale.

The pivots and bearings of the scale are thoroughly tempered. Scale is carefully sealed for the most accurate weighing, and is recommended to the most critical weighers. For use in groceries, markets, hardware stores, in fact any place where a high grade counter platform scale is used.

We guarantee that every scale will weigh accurately and be as satisfactory in every particular as any scale that you may be able to purchase. We ship these scales on ten days trial and if not entirely satisfactory they can be returned to us at our expense and we will cheerfully refund the amount paid.

Size of platform, 10x13 1/2 inches. Size of tin scoop, 10x14 inches. Made of heavy tin, nicely finished.

No. 4-A-550. Premier platform counter scale with double brass beam, shipping weight, 45 lbs. Price,.....**\$4.10**

No. 4-A-551. Premier platform counter scale with single beam, shipping weight, 43 lbs. ...**3.65**

## Perfection Platform and Counter Scale.

Single  
Beam  
Tin Scoop.

**\$2.50**



These scales are strongly constructed, nicely finished and will weigh correctly from one-half ounce to 240 pounds. The beam is marked in half-ounce marks to 44 pounds.

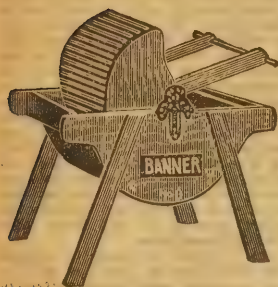
This is the regular standard union counter scale and is guaranteed to weigh correctly. It is not as finely finished or as well constructed as our Premier Counter Platform Scale, but we assure you that they will give good satisfaction. However, where a scale is in constant use we recommend the purchase of our Premier Platform Counter Scale, as it will wear much longer.

No. 4-A-552. Perfection Single Beam Platform Scale, complete with tin scoop, shipping weight, 40 lbs. Price,.....**\$2.50**

No. 4-A-553. Perfection Double Beam Union Platform Scale, complete with tin scoop, shipping weight, 42 pounds. Price,.....**3.25**



## \$2.00 Banner Washing Machine



The principle of this machine has been in use for many years and there are many people who still consider this machine the best means of doing the family washing. This machine, while similar in design to other machines of this type, is much better constructed.

All lumber used in this machine is thoroughly kiln dried, making it practically impossible to warp. In the operation of this machine, the principle is practically the same as hand rubbing, only it is done with the cradle, which makes it possible to turn out the washing much quicker and with much less effort.

The body of this machine is made of one inch selected lumber with a heavy galvanized iron bottom. Legs are of oak.

The inside cradle or rubber is made of thoroughly seasoned corrugated lumber, forming a perfect rubbing surface. All parts of this machine are instantly removable.

This machine has the removable bottom, a feature not in all machines of this style, and metal parts coming in contact with water are heavily galvanized.

No. 4-A-446. Inside dimensions: Width, 19 inches. Length, 28 inches. Depth, 17 inches. Shipping weight, crated, 48 lbs. Price.....\$2.00

If you intend building a home we earnestly request you to read our "Free Plan" offer, and the "Material Specification" as outlined in the Lumber Section of this book.

## \$3.15 Round American Washing Machine



\$3.15

Improved type of Lever Rotary Washing Machine and is meeting with great favor wherever sold. While it is similar in construction to others of the lever operated washing machines, the construction is different, and it is a much better washing machine than others of the same type that are being generally offered.

The tub is made of thoroughly kiln dried Louisiana cypress, corrugated on sides and bottom. Pin wheel is made of thoroughly seasoned hardwood, heavily galvanized center post.

All gearing is made of the best gray iron casting and fully guaranteed against defects in material or workmanship. Legs are made of one inch oak and are easily removable.

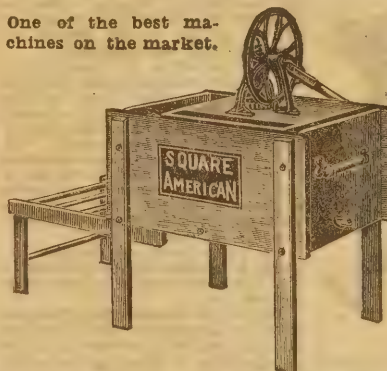
We would call attention to the fact that this machine has a heavy wringer board attached to the tub. Many of the machines of similar type are without this feature, which is a very essential one that will appeal to the housewife.

Machine is finished in colors and all gearing in bronze finish.

No. 4-A-444. Dimensions of tub: Depth, 13½ inches. Diameter, 21 inches. Shipping weight, crated, 54 lbs. Price.....\$3.15

## \$2.95 Square American Washing Machine

One of the best machines on the market.



This machine has had large sale and has proven very popular and in no instance has it failed to give perfect satisfaction.

The Tub is made of one inch thoroughly kiln dried Louisiana cypress which is acknowledged to be the best washing machine lumber procurable.

The Legs are of one inch clear oak substantially bolted to the body of the machine. A feature of these tubs which will not be found in others is that it is strongly cross bolted with heavily galvanized bolts extended through the tub from leg to leg. This feature is very essential in a square type machine inasmuch as it makes it very much stronger than it is possible to make a washer of this type in any other construction, and it will stand up and do more hard work than six of any other washing machines of the same type that are not so constructed.

All metal parts contained in this and in all other tubs which we offer, that come in contact with water are heavily galvanized, thus preventing rust. The gearing is made of the very best quality of gray iron, which is tougher and stronger than the common iron castings used in many washing machines and are therefore less liable to breakage.

The Tub is equipped with Adjustable Tub Stand, also a Wringer Board and Soap Box.

The machine is finished in natural colors, all castings being bronze finish.

No. 4-A-445. Inside dimensions of tub: Width, 17½ inches. Length, 25 inches. Depth, 11½ inches. Shipping weight, crated, 69 lbs. Price.....\$2.95

## \$5.25 Pride Swing Washing Machine



\$5.25

Highest type of machine of its class on the market. The clothes are washed absolutely clean by placing same inside of tub after which the rubber is placed on top of them and the motion of the machine is operated by handle as shown in illustration, on the side of tub.

It is mounted on special gears and castings, and oscillating movement is helped and rendered easier in the operation by two heavy coil springs placed at the bottom of tub that tend to pull it in the opposite direction when it has reached its limit of movement.

The inside of tub is corrugated both sides and bottom, and the self adjustable wash board is scientifically bored and fitted with rubbers.

It is finished in beautiful natural wood, two heavy coats of high grade varnish and all outside iron parts painted in a light, attractive green. The machine is beautiful in appearance and its mechanical construction is all that could be desired.

No. 4-A-447. Inside Dimensions: Depth, 13½ inches. Diameter, 21 inches. Shipping weight, crated, 63 lbs. Price.....\$5.25





## \$5.25 Chicago Rotary Washing Machine



This is the most substantial and easiest working Rotary Washing Machine on the market. If you are looking for a Rotary machine you cannot possibly do better than to buy our Chicago Rotary. We absolutely guarantee this machine to be perfect in all details of material and workmanship.

The Gearing is the most simple and easiest running on any washing machine of similar type on the market. Is enclosed, as illustrated, thereby making it impossible for any child or adult to injure himself. We wish to call your particular attention to the hood which encloses the gears, which not only serves the purpose of keeping out the dirt, but prevents any possible chance of injury to adults or children.

The tub is made of the best selected Louisiana cypress thoroughly kiln dried, corrugated on the sides and bottom.

Instead of having the extended stave leg as used on other machines of this type, this machine has the

détachable leg which does away with the necessity of throwing the entire machine away in case a leg becomes broken. The legs are cross braced and bolted, making them very substantial. This machine has a very heavy and substantial wringer board attached to the tub.

The iron post which turns the wood pin wheel on the inside of the machine is heavily galvanized, as are all metal parts which come in contact with water, thus preventing rust.

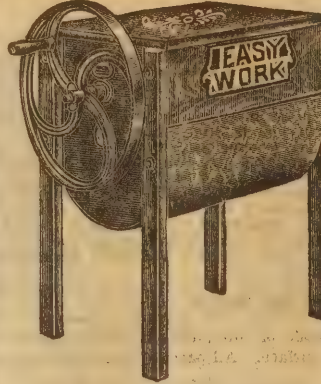
There are no springs, clutches or any other mechanism that can possibly get out of order. Machine is beautifully finished in golden oak. All hoops and metal parts are bronze finish.

No. 4-A-443. Inside dimensions of tub:

Depth, 13½ inches. Diameter, 21 inches.

Shipping weight, crated, 84 lbs. Price.....\$5.25

## \$5.85 Easy Work Washing Machine



HIGH SPEED EASY MOTION

Our Easy Work Washing Machine is of the Cylinder type, the same in general construction as our Premier High Speed Washing Machine, with the exception that it is operated by crank motion, the balance regulated by the fly wheel, thus insuring a steady motion which assures easy work. It will not, however, enable you to turn out your washing as fast as it could be done if you used our Premier High Speed Washing Machine. However, this is a strictly high grade washing machine in every particular and is the same in general construction with the exception that it is not fitted with the high speed lever.

The Cylinder is made of 1½ inch kiln dried cypress moulded so as to form a perfect wash board surface on the inside of the cylinder. The washing is done by putting the clothes inside of the cylinder and after replacing lid the cylinder is revolved in either direction through the water.

The clothes are thoroughly cleaned by hot soap suds being forced through the material, thereby eliminating all wear and tear as in a Rotary Machine and making it possible to wash anything from the finest lace curtain to a heavy blanket without the least injury.

The Body is made of one inch kiln dried cypress, the bottom being covered with heavy galvanized iron.

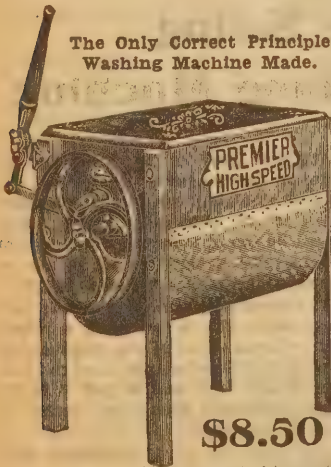
The legs are made of 1½ inch oak and are heavily cross bolted from leg to leg, making the machine very substantial.

The Gearing is all hung from one piece, making it impossible for the machine to get out of order in any way and no matter what shrinkage may occur in the body of the tub the gearing will always remain in the same relation to each other.

The Machine is beautifully finished in natural colors. Wheel is painted either green or gold bronze.

No. 4-A-442. Dimensions of Cylinder: 14½ inches in diameter, 22 inches long. Dimensions of Tub, 18½ inches wide, 22 inches long, 20 inches deep. Shipping weight, crated, 98 lbs. Price.....\$5.85

## \$8.50 Premier High-Speed Cylinder Washing Machine



The Only Correct Principle Washing Machine Made.

\$8.50

This is the latest type of hand washing machine made. It is constructed on the cylinder principle, which is used in every large laundry in the country.

The clothes are placed in the cylinder and are washed by the action of the water which comes in contact with them as the cylinder is revolved through the water. This is the first and only successful cylinder washing machine ever placed on the market with a high speed lever attachment. This lever renders the work very easy and it takes but an 8 inch pull backward and forward to completely revolve the cylinder at a high speed. This machine without a doubt is the easiest operated machine ever constructed.

**THE GEARING** is very simple, consisting of but three small galvanized cogs all hung from one piece on the inside of the tub. There is absolutely nothing to get out of order—no gearing on the outside at all to maim adults or children.

**THE CYLINDER** is made of 1½ inch kiln dried cypress, moulded so as to form a perfect wash board surface on the inside.

**THE LEVER** has a socket arrangement so that it can be moved to operate in either a sitting or standing position.

**THE BOTTOM OF TUB** is made of heavily galvanized iron, and all metal parts coming in contact with water are heavily galvanized to prevent rusting.

Compare this machine with the so-called High Speed Rotary Machines on the market and notice the difference in the internal construction. We guarantee that our Premier High Speed Washing Machine will thoroughly wash the clothes in less time than any other machine on the market and without any wear and tear. Those who have used Rotary Washing Machines will realize what a great difference this makes.

Should you purchase one of these washing machines from us and after giving it a thorough trial do not find it satisfactory in every respect, you may return it to us at our expense.

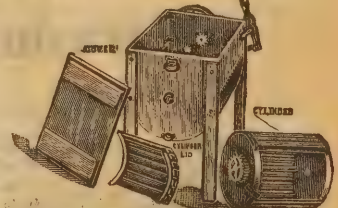
The Cylinder is instantly removed and can be taken out without any effort. All parts are easily accessible, making it possible to clean the machine readily.

**THE TUB** is made of 1 inch thoroughly kiln dried lumber with inch-and-a-half solid oak legs. The tub is cross bolted with heavy galvanized bolts from leg to leg, making it impossible to separate.

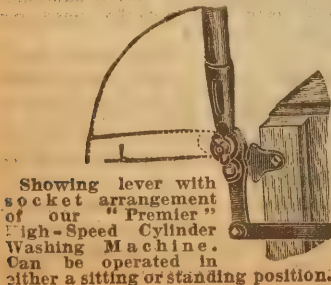
**THE MACHINE** is finished in natural colors and beautifully decorated. A feature of this machine is that when not in use the lever and wheel can be easily removed, thereby making a handy kitchen table.

No. 4-A-441.  
Dimensions of Cylinder, 19½ inches long, 14 inches diameter.  
Dimensions of Tub, 18½ inches wide, 22 inches long, 20 inches deep.  
Shipping weight, crated, 110 lbs.  
Price.....\$8.50

No wear, no tear on clothes.



Showing cylinder and interior construction of our "Premier" High Speed Washing Machine.



Showing lever with socket arrangement of our "Premier" High-Speed Cylinder Washing Machine. Can be operated in either a sitting or standing position.



# FIRE PROOF SAFES AND VAULT DOORS

## CONSTRUCTION.

The bodies of the Premier Safes are made without panels. They are formed of a continuous piece of re-rolled wrought steel bent around the entire safe and riveted at the bottom. Heavy solid re-inforced wrought steel angles at front and rear to which this plate is riveted, protect and strengthen it. The corners are bent round, giving greater strength and rigidity, and are much neater in appearance than the square corner safe. The material used throughout is heavier than is ordinarily used, and is of the best quality that can be procured.

## LOCKS.

This is one of the most important parts of our line of safes, and particular attention is directed to combination locks, using a high grade lock of the most modern type. It has a combination dial and separate T handle for operating bolts, and by means of a very ingenious device, is so arranged that should any attempt be made to enter the safe, by drawing out or knocking in, either the dial or T handle spindle, it would result in a most hopeless lock-out. It is absolutely non-pickable and susceptible to almost an innumerable number of changes and it is practically impossible to get out of order. Our four-tumbler non-pickable lock is the result of years of study, and is as near perfect as it is possible for a lock to be. This lock is used on all of our safes, and is protected with tempered drill-proof steel plates.

## CONSTRUCTION OF DOORS.

All doors have the improved narrow flanges; 5 flanges on numbers 10 to 30, six flanges on numbers 40 and 50, the larger safes having the heavier wider flanges. This is recognized as the best construction, since it retards the penetration of heat and it strengthens the door greatly. Round bolts oper-

ate through the inner flange. This method enables us to fill the door properly and renders the lock accessible for changing the combination.

## FIRE PROOF FILLING.

The walls of these safes are filled with an absolutely fire-proof non-conducting preparation, which in a very short time after the filling is put in the safe, it adheres to the steel and becomes perfectly dry and hard, forming a compact mass as resistible as granite, thereby adding firmness to the body of the safe, which is already secured to a very great extent in the construction of its shell by heavy sheet steel and rounded corners.

## CABINET WORK.

The cabinets are finished in oak; they are fitted with air chambers at top, bottom, sides and back which effectually overcomes dampness, a fault common with many safes when closed for a long time.

## FINISH.

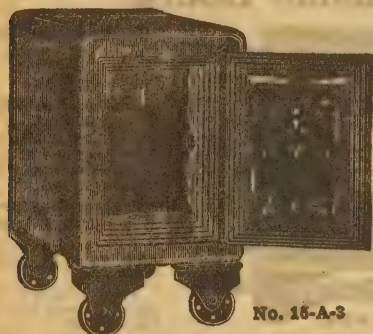
Every safe is handsomely finished and name lettered thereon without charge, if requested.

In the general construction of our safes we have endeavored to overcome the weak points and objectionable features found in other safes now on the market, and have added many improvements. Each department of our factory is in charge of an expert, and the entire shop is under the direct management of one who is recognized as the foremost safe expert in the country.

By improved methods of manufacturing and the use of especially designed machinery, we are in a position to offer you better safe values than you could possibly secure elsewhere.

SHIPPED FROM FACTORY, CENTRAL INDIANA.

## Household Safe



No. 15-A-3

### Outside Dimensions

Height 24½ inches  
Width 15½ inches  
Depth 17 inches

### Inside Dimensions

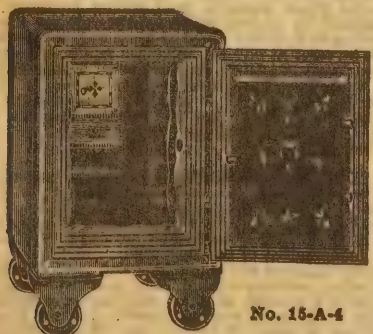
Height 11 inches  
Width 7 inches  
Depth 9 inches

Approximate weight 300 pounds.

### ARRANGEMENT OF CABINET WORK

1 drawer 2½x7 inches, with duplicate flat key lock; Book space, 8½x7x9 inches.

This safe we recommend for safekeeping of jewelry, mortgages, deeds and insurance papers. Price .....\$14.00



No. 15-A-4

Suitable for farmers or professional men for the protection of valuable documents.

### Outside Dimensions

Height 27½ inches  
Width 18 inches  
Depth 18 inches

### Inside Dimensions

Height 13½ inches  
Width 9½ inches  
Depth 10 inches

Approximate weight 500 pounds.

### Arrangement of Cabinet Work

Sub-treasury, 5x5 inches, with duplicate flat key lock and Japanned metal cash tray.

1 drawer with knob, 2½x5 inches  
2 pigeon holes, 2½x5 inches

1 book space, 13½x4½x10 inches. Price .....\$17.50

## FIRE PROOF VAULT DOOR



## Brand New Finely Finished

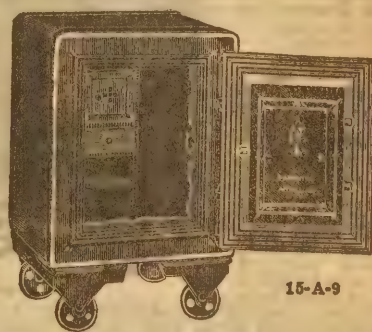
This Vault Door is strongly constructed and warranted to be absolutely fire proof. It is designed to fit opening in wall 78½ inches high, 32 inches wide and thickness of wall 20 inches, opening in clear of doorway 27½ inches wide and 76 inches high. The outer doors are made of 3-16 inch re-rolled Bessemer steel with 2x3-16 inch angles at edges through which operate two 1 inch round callender steel bolts working back and forth.

The bolts are controlled by a Premier patented 4 tumbler combination lock. Inner doors are made of No. 14 steel with 2x3-16 inch panel bars. Flat up and down and center bolts are provided on both doors. Bolt work controlled with improved flat key lock with improved duplicate keys.

FINISH. These doors are handsomely finished—black body with gold striping. We will without extra charge letter name above door on request. Approximate weight 650 lbs.

No. 15-A-5 Price .....\$55.00

## Business Man's Safe



15-A-9

For Business men and Farmers, whose requirements are limited.

### Outside Dimensions

Height 30½ inches. Width 19 inches. Depth 19 inches.

### Inside Dimensions

Height 15½ inches. Width 10½ inches. Depth 10½ inches.

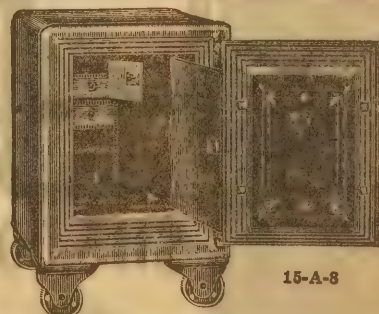
Approximate weight 600 pounds.

### ARRANGEMENT OF CABINET WORK

1 sub-treasury, 5x5 inches, with duplicate flat key lock and Japanned metal cash drawer. 1 drawer with knob, 2½x5 inches. 1 pigeon hole, 2½x5 inches. 1 pigeon hole, 4½x5 inches. Book space, 15½x5½x10½ inches.

Price .....\$19.75

## Business Man's Safe



15-A-8

Capacity large enough to hold a set of books of standard size.

### Outside Dimensions

Height 34½ inches. Width 26 inches. Depth 23 inches.

### Inside Dimensions

Height 17½ inches. Width 12½ inches. Depth 12 inches.

Approximate weight, 800 pounds. This safe has an inside door with improved duplicate key lock.

### ARRANGEMENT OF CABINET WORK

1 sub-treasury, 5x5 inches, with duplicate flat key lock and Japanned metal cash tray. 1 drawer with knob, 2½x5 inches. 1 pigeon hole, 2½x5 inches. 1 book space, 6½x5 inches. 1 book space, 17½x7½x12 inches.

Price .....\$24.75



## Lodge and Business Man's Safe



15-A-6

Designed especially for business men, public officials and general purposes.

### Outside Dimensions

Height 36½ inches.  
Width 25 inches.  
Depth 24½ inches.

### Inside Dimensions

Height 19½ inches.  
Width 14½ inches.  
Depth 12½ inches.  
Approximate weight 1,000 pounds. Has inside door with duplicate key lock.

### ARRANGEMENT OF CABINET WORK

**\$35.00**

1 sub-treasury, 5x5 inches, with duplicate key lock and hole 2½x5 inches. 1 pigeon hole 6x5 inches. 1 book space 19½x9½x12 inches. Price.....**\$35.00**

Japanned metal cash drawer. 2 drawers with knob, 2½x5 inches. 1 pigeon hole 6x5 inches. 1 book space 19½x9½x12 inches. Price.....**\$35.00**

## Lodge and Business Man's Safe

### Outside Dimensions

Height 42 inches.  
Width 27 inches.  
Depth 26 inches.

### Inside Dimensions

Height 26 inches.  
Width 18 inches.  
Depth 15½ inches.  
Approximate weight 1,150 pounds. Has inside door with improved flat key lock.

### ARRANGEMENT OF CABINET WORK

1 sub-treasury, 6½ inches high, 5½ inches wide, 12 inches deep. 3 drawers with knob, 3 inches high, 5½ inches wide, 12½ inches deep. 4 pigeon holes 3 inches high, 6 inches wide, 14½ inches deep. 1 book space, 9 inches high, 5½ inches wide, 14½ inches deep. 2 book spaces each 19 inches high, 6 inches wide, 14½ inches deep. Price.....**\$45.00**



15-A-7

**\$45.00**

## Commission Merchant's and Business Man's Safe

No. 15-A-1

### Outside Dimensions

Height 50 inches  
Width 31½ inches  
Depth 30 inches

### Inside Dimensions

Height 29 inches  
Width 18 inches  
Depth 17 inches.

Approximate weight 2,200 pounds.

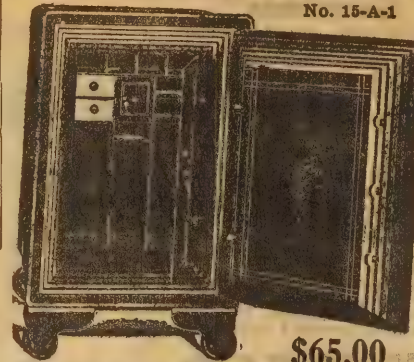
### ARRANGEMENT OF CABINET WORK

2 book spaces each 19 inches high, 4 inches wide, 16 inches deep.

1 book space, 19 inches high, 5½ inches wide, 16 inches deep.

1 book space, 14 inches high, 8 inches wide, 16 inches deep.

4 pigeon holes, 3 inches



**\$65.00**

high, 4½ inches wide, 16 inches deep.  
2 drawers, 3 inches high, 5½ inches wide, 15 inches deep.  
1 sub-treasury with duplicate flat key lock, 8 inches high, 8 inches wide, 12 inches deep. Price.....**\$65.00**

## Double Door Safe with Folding Inside Doors

### Outside Dimensions

Height 53½ inches  
Width 37½ inches  
Depth 30 inches

### Inside Dimensions

Height 30½ inches  
Width 24½ inches  
Depth 16 inches

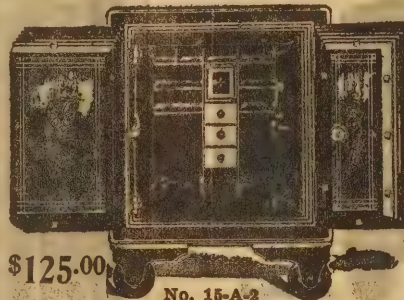
Approximate weight 3,000 pounds.

### ARRANGEMENT OF CABINET WORK

2 drawers, each 3 inches high, 7½ inches wide, 15 inches deep.

1 sub-treasury, 8 inches high, 8 inches wide, 15 inches deep.

5 pigeon holes, 3 inches high, 4½ inches wide, 15 inches deep.  
4 pigeon holes, 3 inches high, 8 inches wide, 15 inches deep.  
2 book spaces, each 20 inches high, 8 inches wide, 15 inches deep.  
1 book space, 6 inches high, 5½ inches wide, 15 inches deep. Price.....**\$125.00**



No. 15-A-2

**\$125.00**

## Turnstiles and Ticket Choppers



Complete Combination

**\$115.00**

Turn Stile "A" is the Standard type of Turn Stile and represents the acme of manufacture in this direction. It is the product of nineteen years of experience with consequent improvements from time to time, so that today it is simple and effective and covers every requirement that should be embodied in a turn stile. It is substantially made with best quality gray iron base, finished slate color with arms of 1½ in. special grade seamless steel tubing japanned. It is operated by a foot lever, which releases the arms. The register, which registers from one to 100,000 and can be reset at any intermediate number at any time, is enclosed in a brass casing, locked with a Yale lock, so that only the proper person may open it. The length of the arms over all is 41 inches and the height from the floor to the top of the arm 36 inches. Weight ready for shipping 138 pounds. Price, each.....**\$50.00**

**TICKET CHOPPER** or cancelling machine in a great many cases is used to advantage with the turn stile. It completes the system, is an absolute check on all receipts and cancels the tickets in such a way that they cannot possibly be used again. At side attractions where it is the desire to handle crowds very rapidly the ticket chopper is used successfully, independent of the turn stile. The tickets are dropped in the open glass top of the machine and are fed in between two rolls, operated by a foot lever, which perforates them with clean cut holes without mutilating them, and leaves their surface smooth so that they can be easily counted by placing them on top of each other in the usual way, if desired. For the body carefully selected oak is used while the top is made of heavy plate glass with a highly polished brass frame. The dimensions are 4 feet high, body 10 x 10 inches. Weight ready for shipment 100 pounds. Price, each.....**\$65.00**

This illustration of turn stile and ticket chopper shows the arrangement when used together. They are both constructed to use singly or together and do not require any extra attachments or additional parts when set up together. The foot lever of the turn stile can be held down by inserting a plug in the base and the ticket chopper will operate both machines at the same time by releasing the arm of the turn stile as the lever is pressed down without any more pressure than is required to operate the former alone. The dimensions of the turn stile are: Length of arms over all 41 inches, height from floor to top of arms 36 inches, weight ready for shipping, 138 pounds. The dimensions of the ticket chopper are 4 feet high, body 10 x 10 inches, and the weight ready for shipping 100 pounds. Complete combination. Price, each.....**\$115.00**



# Series and Bridging Telephones

Our line of telephones are built under the direct supervision of one of the most able telephone engineers in the country, and we offer the best constructed instruments on the market at prices which will compete with the cheaper lines of telephones which are being offered.

We guarantee any telephone which we sell will operate successfully and prove entirely satisfactory to you and if not equal to any instrument you have ever used from any standpoint, you may return them at our expense within 30 days and we will refund the full amount paid.

## TO CONNECT ON ESTABLISHED LINES

It is not necessary that telephones be of the same manufacture, but the ringers on the bridging line must be of the same resistance; that is, if the line you wish to connect is equipped with 1600 ohm ringers the ringer on your telephone must be the same resistance, otherwise you will cripple the service of the entire line.

## THE CABINETS

Are made of highly polished golden oak which is kiln dried and are constructed in the most careful and workmanlike manner with lock corners. Each telephone is equipped with self-cleaning, approved Lightning Arrester, which gives most perfect protection against burn-outs by lightning.



The Receiver is of equal vital importance as the Transmitter. Our Receiver is of the double pole, self-contained type. A heavy metal cup supports the permanent magnet and coils. In fact the entire receiver is assembled on this metal cup. The adjustment is permanent. The entire mechanism may be removed from the shell by taking off the cup and covering the diaphragm. The Receiver has concealed binding posts, and there are no exposed metal parts. Each Receiver is equipped with a three foot Worstad Cord.

The Generators are of the highest efficiency which is due to their perfect electrical and mechanical construction. The bars are made of a special magnet steel, are very heavy, thus insuring the greatest possible output. The armature chamber is dust proof. The armatures are built of soft iron and wound with the best grade of heavily insulated magnet wire. The gears are cut from solid brass and are noiseless.



The Automatic Shunt on our Series, and Cut-in Device on our bridging Generators are guaranteed to give a higher output of current and operate more successfully than any Generator on the market.

We Guarantee that our telephones will work successfully (without condensers) where there are as many as 30 telephones on the line, and if provided with Condensers they will work successfully where there are as many as 50 telephones on the line.

The Induction Coil is wound with silk insulated wire to the proper resistance. They have fiber heads with screw clip terminals so that a Coil can be easily removed from the telephone.

The Switch Hook is of the Long Lever Self-Contained Type. The Springs are of German Silver and are guaranteed to make positive contacts. The Switch Hook is so arranged that the fork or frame is insulated and is not in the circuit. Therefore it is impossible to obtain a shock when ringing and having hold of the Switch Hook at the same time.

Condensers. We recommend that all Bridging Telephones be equipped with Condensers. The benefits derived by using Condensers in Bridging Telephones are explained as follows:

We will guarantee that on a line equipped with any number of telephones, you can ring any party on your line regardless of the number of receivers removed from the hooks. All Bridging Telephones sold by us have the Condenser Loops but the Condensers are not included in the price of telephones. We offer the Condensers of proper construction, each one guaranteed to work perfectly, price each.....\$0.50

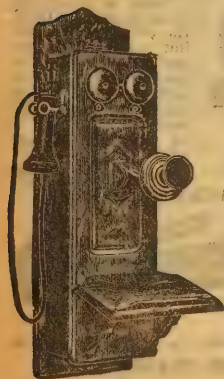


The Ringer is of the type employing two spools or coils. The permanent magnet is fastened to the base by two screws. It also supports the adjustment of the armature. The adjustment of our Ringer is obtained by a screw passing through the permanent magnet. Turning this screw to the right or left with an ordinary screw driver will obtain an immediate adjustment. Our Ringers are wound to the proper resistance with double silk insulated wire and are heavily nickel plated and highly finished.

The Transmitter is one of the most vital parts of the telephone. We use a solid back Button Type Transmitter which has highly polished Carbon Electrodes. It is a new model and constructed along the lines that are in use by the standard companies. The carbon diaphragm and granulated carbon with which these Transmitters are fitted is the best it is possible to secure, making the articulation clear and distinct and guaranteed to transmit successfully over long lines.



## Telephones Shipped Direct From Factory, Central Ohio. Compact Cabinet Bridging Telephones

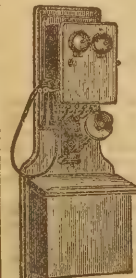
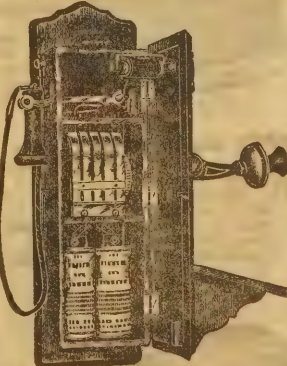


No. 14-A-1. 5-bar Magnet Compact Bridging Telephone with 1000 Ohm Ringers, and two dry batteries.  
Price, each.....\$ 9.65  
Price, for six.....\$51.10

No. 14-A-2. 5-bar Magnet Compact Bridging Telephones with 1600 Ohm Ringers complete with two dry batteries.  
Price, each.....\$ 9.85  
Price, for six.....\$71.00

No. 14-A-3. 5-bar Magnet Compact Bridging Telephones with 2000 Ohm Ringers complete with two dry batteries.  
Price, each.....\$10.00  
Price, for six.....\$60.50

No. 14-A-4. 5-bar Magnet Compact Bridging Telephones with 2500 Ohm Ringers complete with two dry batteries.  
Price, each.....\$10.75  
Price, for six.....\$64.40



### LONG CABINET TYPE (BRIDGING TELEPHONES)

No. 14-A-5. 5-bar Magnet Long Cabinet Type Bridging Telephones with 1000 Ohm Ringers complete with two dry batteries.

Price, each.....\$10.25  
Price, for six.....\$61.50

No. 14-A-6. 5-bar Magnet Long Cabinet Type Bridging Telephone with 1600 Ohm Ringers complete with two dry batteries.

Price, each.....\$10.50  
Price, for six.....\$63.00

No. 14-A-7. 5-bar Magnet Long Cabinet Type Bridging Telephones with 2000 Ohm Ringers, complete with two dry batteries.

Price, each.....\$10.75  
Price, for six.....\$64.50

No. 14-A-8. 5-bar Magnet Long Cabinet Type Bridging Telephone with 2500 Ohm Ringers, complete with two dry batteries.

Price, each.....\$11.55  
Price, for six.....\$69.30

## Series Telephones

Series Telephones can be used successfully on party lines where there are not more than four telephones installed. They are, however, more generally used for regular telephone exchange work: that is, where the telephones are in connection with the Central Office having a switch board.

In construction, our Series Telephones are equal in every respect to our Bridging Telephones. They are equipped with Three Magnet 80 Ohm Generators, Double-pole Self-Containing Type Receivers, Solid Back Transmitters, long lever self contained Switch Hook with German Silver Springs. In fact, the construction of this telephone is in every sense high grade and equal to any on the market.

No. 14-A-9. Compact Series Telephone, complete with two dry batteries. Price, each .... \$7.75

No. 14-A-10. Long Cabinet Type Series Telephone, complete with two dry batteries. Price, each.....\$8.20

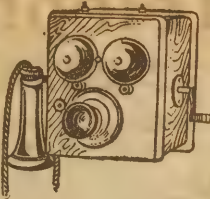


## TWO-PARTY LINE TELEPHONES.

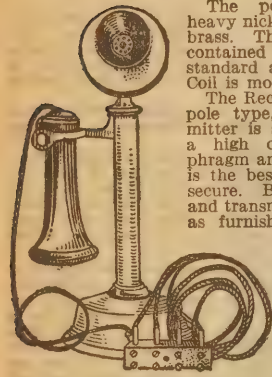
**No. 14-A-11.**  
Equipped with special 3-bar Generators, first class receivers and transmitters. These telephones are especially desirable on short lines not exceeding five miles.

The case is made of oak highly polished, and all parts are heavily nickel plated and polished.

Price, complete, including two telephones and four batteries. \$9.50



## DESK TELEPHONES.



The portable stand is heavy nickel plated, polished brass. The Switch Hook is contained in the upright standard and the Induction Coil is mounted in the base. The Receiver is the double pole type, and the Transmitter is a solid back with a high class carbon diaphragm and granular carbon is the best it is possible to secure. Both the receiver and transmitter are the same as furnished in connection with our Compact and Long Style Cabinet Bridging Telephones. The Receiver and Conducting Cord is silk covered. Length of cord furnished, five feet.

Generators are contained in a polished oak case.

**No. 14-A-12.** Bridging Desk Telephone, complete with 1000 Ohm Ringer and two dry batteries. Price, each. \$12.50

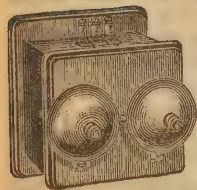
**No. 14-A-13.** Bridging Desk Telephone, complete with 1600 Ohm Ringer and two dry batteries. Price, each. 12.80

**No. 14-A-14.** Bridging Desk Telephone, complete with 2000 Ohm Ringer and two dry batteries. Price, each. 13.25

**No. 14-A-15.** Series Desk Telephone, complete with 2500 Ohm Ringer and two dry batteries. Price, each. 13.50

**No. 14-A-16.** Series Desk Telephone, complete with 80 Ohm Ringer and two dry batteries. Price, each. 10.50

## EXTENSION BELLS.



These are additional call bells to be connected with the telephones and can be placed in the shop or any room distant from the telephone.

It often happens that it is necessary to leave the office or room in which the telephone is located and if it is very convenient to have the Extension Bell at some point where a telephone call will be heard and answered.

Understand that these are signal bells and are not telephones. It is therefore necessary after receiving the ring to go to the point where telephone is located and answer the signal. It is necessary that the Extension Bell be of the same ringing strength as the telephone. No additional battery is required to operate this Bell.

**No. 14-A-18.** 80 Ohm Series Extension Bell. Price, each. \$1.45

**No. 14-A-19.** 1,000 Ohm Bridging Extension Bell. Price, each. 2.25

**No. 14-A-20.** 2,000 Ohm Bridging Extension Bell. Price, each. 2.70

**No. 14-A-21.** 2,500 Ohm Bridging Extension Bell. Price, each. 3.00

## ANTI HUM.



**No. 14-A-22.** Used to stop humming on telephone or telegraph lines. Price, each. \$0.18

## GALVANIZED TELEPHONE WIRE.



We offer B. B. galvanized iron wire, which is double galvanized, each coat being uniform in its application, thereby insuring durability. It is put up in 50 lb. coils.

**No. 14-A-23.** No. 10 gauge, weight, per mile, approximately 260 lbs. Price, per 100 lbs. \$3.85

**No. 14-A-24.** No. 12 gauge, weight, per mile, approximately 165 lbs. Price, per 100 lbs. 3.95

**No. 14-A-25.** No. 14 gauge, weight, per mile, approximately 96 lbs. Price, per 100 lbs. 4.00

## GALVANIZED STEEL TELEPHONE WIRE.

Double galvanized wire generally used for rural telephone lines. Put up in coils containing fifty pounds. Sold in full coils only.

**No. 14-A-26.** Gauge No. 10, weight, per mile, 260 lbs. Price, per 100 lbs. \$2.75

**No. 14-A-27.** Gauge No. 12, weight, per mile, 165 lbs. Price, per 100 lbs. 2.85

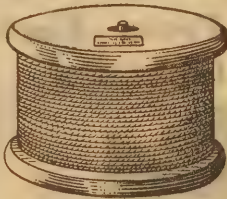
**No. 14-A-28.** Gauge No. 14, weight, per mile, 96 lbs. Price, per 100 lbs. 3.10

## INTERIOR TELEPHONE WIRE.



**No. 14-A-29.** Double conductor, rubber covered, twisted and braided, No. 19 Gauge. Price, per 100 feet. \$1.35

## ANNUNCIATOR AND OFFICE WIRE.



Double cotton covered insulated two winds of cotton yarn applied in opposite directions, waxed and paraffined, furnished either on spools containing about 8 lbs. or in coils weighing one pound.

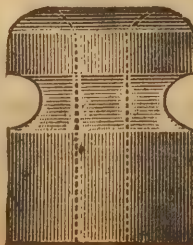
**No. 14-A-30.** No. 18 Gauge, 150 feet to the pound. Price per pound. \$0.28

## PONY GLASS INSULATORS.

Put up 400 in the barrel. Shipping weight about 300 lbs.

**No. 14-A-31.** Price, per barrel containing 400 Insulators. \$6.00

Price, in any quantity less than barrels, each. \$0.15



## PORCELAIN INSULATORS.

**No. 14-A-32.** No. 14x31, space between groove and bottom 1 inch, diameter 1 1/2 inch, Height, 1 1/2 inch, Hole, 1/2 inch, Groove, 1/2 inch. Price, per 100. \$0.70

## PAINTED OAK PINS.



**No. 14-A-33.** 1. To be used on cross arms in connection with Pony Glass Insulators. Price, per bag containing 250 pins. \$1.25  
Price, each in less than 250 lots. .001

## PAINTED OAK BRACKETS.



For use in telephone construction where cross arms are not used. Can be fastened to pole or building.

**No. 14-A-34.** Price, per bag containing 250 brackets. \$2.25  
Price each, in less quantities than 250. .01

## YELLOW PINE CROSS ARMS.



Dimensions, 2 1/2 x 2 1/2, bored for 1 1/2 inch oak pins.

**No. 14-A-35.** 2 Pin, Length 30 in. Price, each. \$0.12 1/2

**No. 14-A-36.** 4 Pin, Length 42 in. Price, each. .17

**No. 14-A-37.** 6 Pin, Length 62 in. Price, each. .25

**No. 14-A-38.** 8 Pin, Length 32 in. Price, each. .33

## CROSS ARM BRACES.



	Length	Width	Thick-	Price
<b>No. 14-A-39.</b> Plain	20	1	1/2	\$0.02 1/2
<b>No. 14-A-40.</b> Galv	20	1	1/2	.03 1/2

## LINEMAN'S CLIMBERS.

Made from heavy, high grade, forge steel properly tempered and guaranteed fully in every particular.



Made from heavy, high grade, forge steel properly tempered and guaranteed fully in every particular.

**No. 14-A-41.** Climbers Eastern pattern without strap, length 16 in. to 18 in. Price, per pair. \$1.50

**No. 14-A-42.** Straps for Eastern pattern Climbers, for set of four straps with pads. Price. 1.00

## HOLD FAST WIRE GRIP.



This is a simple, durable, practical tool, the eccentric part being made from the best 1 1/2 inch round steel knurled on its surface so as not to injure the wire. Will take from No. 2 to No. 13 Gauge wire.

**No. 14-A-43.** Price, each. \$0.29

## AUTOMATIC WIRE CLAMP.

Used for stretching smooth wire of all kinds. Made of the very best crucible steel properly tempered.

**No. 14-A-44.** Price, each. \$0.75

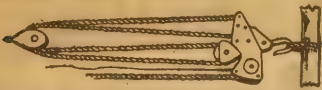
## COME ALONG CLAMPS.



This is a very popular tool for linemen, made of the very best crucible steel and fully guaranteed. Will take wire No. 9 or smaller.

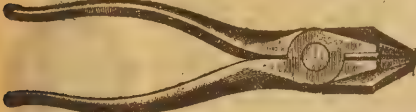
**No. 14-A-45**  
Price, each. \$0.50



**SAFETY BLOCK WIRE STRETCHER.**

This illustration shows a Safety Block to be used as a wire stretcher in connection with our Hold Fast Wire Grip, stretching smooth wire. The Safety Block can be used in connection with smooth, barb or woven fence wire. Price, complete with 16 ft. of  $\frac{1}{4}$  inch rope, but does not include Hold Fast Wire Grip.

No. 14-A-46. Price, each.....\$0.90  
**LINEMEN'S SIDE CUTTING PLIERS.**



Made of the very best Imported Swedish tool steel. Polished face and jaws. A strictly high-grade guaranteed tool.

No. 14-A-47. Length 7 inches. Price, each.....\$0.65  
No. 14-A-48. Length 8 inches. Price, each......75  
**ELECTRICIANS' HEAVY SIDE CUTTING PLIERS.**

Insulated Handles.



This is a high grade tool, made of the very best grade of improved tool steel, with polished face and edges, drop forged handles, and guaranteed fully in every particular.

No. 14-A-49. Price, each.....\$1.25  
**LINEMEN'S COMBINATION WIRE AND SLEEVE CLAMPS.**



Drop forged from the highest grade of tool steel. Guaranteed to be strictly a first-class tool in every particular. Furnished with polished head. Length of handles, 10 $\frac{1}{2}$  inches.

It has five holes for Nos. 6, 8, 10, 12 and 14 wire. Reversing the handles it will take 8, 10, 12 and 14 McIntyre Sleeves.

No. 14-A-50. Price, each.....\$1.54  
**LINEMEN'S SPLICING CLAMPS.**



Made of the highest grade tool steel properly tempered. Each tool fully guaranteed. Length, 10 $\frac{1}{2}$  inches. Polished head, Mill cut teeth. It has five holes for wire Nos. 6, 8, 10, 12 and 14.

No. 14-A-51. Price, each.....\$1.35  
**FUSE BLOCKS WITH CARBON LIGHTNING ARRESTERS.**



No. 14-A-52. Single pole porcelain base fuse block with carbon lightning arresters, Western Union or Postal style. Price each, with a dozen copper tipped fuses.....\$0.25

No. 14-A-53. Double-pole porcelain base Fuse Block, with carbon lightning arresters, Western Union or Postal style. Price, each with a dozen copper-tipped fuses.....\$0.55

**IRON BOX BELL.**

No. 14-A-54. 3 inch Iron Box Bells, used where a general call purposes. Price, each.....\$0.19

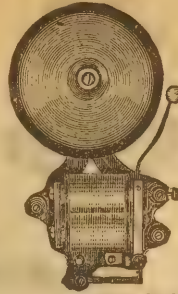
No. 14-A-55. 4 inch Iron Box Bells, used where a louder tone is required. Price, each......29

**SKELETON BELLS.**

These bells are used for alarm or in noisy places such as shops, mills, etc. where the ordinary Iron Box Bell could not be heard.

These bells are the best it is possible to produce. The adjustment is perfect. The contact points are platinum, thus insuring a uniform, penetrating ringing.

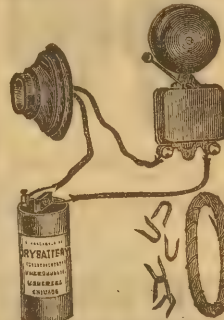
No. 14-A-56. 4 inch gong. Price.....\$1.10  
No. 14-A-57. 5 inch gong. Price..... 1.45  
No. 14-A-58. 6 inch gong. Price..... 1.65  
No. 14-A-59. 8 inch gong. Price..... 3.00  
No. 14-A-60. 10 inch gong. Price..... 4.75  
No. 14-A-61. 12 inch gong. Price..... 6.00

**IRON BOX BUZZERS.**

No. 14-A-62. Used in place of bell for call purposes. Makes a loud, buzzing sound. Price, each.....\$0.19

**ELECTRIC BELL OUTFITS.**

No. 14-A-63. Consisting of one 3-inch Iron Box Bell, one dry battery, one push button, 75 ft. annunciator wire and one package of staples. Price, per set.....\$0.65

**PERFECTION WET BATTERIES.**

No. 14-A-64. For use on open circuits for door bells, telephones, etc. These batteries are easily re-charged. Price, complete, including glass jar, zinc, round carbon and one charge of sal ammoniac.

Price.....\$0.28  
Extra zincs, each......03  
Extra carbons, each......15  
Sal ammoniac, per charge... .05

**STANDARD FULLER BATTERIES.**

No. 14-A-65. This is a long life, high grade battery, recommended for use on long distance telephones, gasoline engines, motors, nickel plating outfits and laboratory work. For gasoline engines, we recommend that a set of four batteries be used. Size of jar, 6x8 inches. Price of battery complete, including charge.

No. 14-A-52. Single pole porcelain base fuse block with carbon lightning arresters, Western Union or Postal style. Price each, with a dozen copper tipped fuses.....\$0.25

No. 14-A-53. Double-pole porcelain base Fuse Block, with carbon lightning arresters, Western Union or Postal style. Price, each with a dozen copper-tipped fuses.....\$0.55

No. 14-A-54. 3 inch Iron Box Bells, used where a general call purposes. Price, each.....\$0.19

No. 14-A-55. 4 inch Iron Box Bells, used where a louder tone is required. Price, each......29

No. 14-A-56. 4 inch gong. Price.....\$1.10

No. 14-A-57. 5 inch gong. Price..... 1.45

No. 14-A-58. 6 inch gong. Price..... 1.65

No. 14-A-59. 8 inch gong. Price..... 3.00

No. 14-A-60. 10 inch gong. Price..... 4.75

No. 14-A-61. 12 inch gong. Price..... 6.00

No. 14-A-62. Used in place of bell for call purposes. Makes a loud, buzzing sound. Price, each.....\$0.19

No. 14-A-63. Consisting of one 3-inch Iron Box Bell, one dry battery, one push button, 75 ft. annunciator wire and one package of staples. Price, per set.....\$0.65

No. 14-A-64. For use on open circuits for door bells, telephones, etc. These batteries are easily re-charged. Price, complete, including glass jar, zinc, round carbon and one charge of sal ammoniac.

Price.....\$0.28

Extra zincs, each......03

Extra carbons, each......15

Sal ammoniac, per charge... .05

No. 14-A-65. This is a long life, high grade battery, recommended for use on long distance telephones, gasoline engines, motors, nickel plating outfits and laboratory work. For gasoline engines, we recommend that a set of four batteries be used. Size of jar, 6x8 inches. Price of battery complete, including charge.

No. 14-A-66. Crowfoot Gravity Battery, size 5x7, complete, including jar, copper and zinc. Price, each.....\$0.42

No. 14-A-67. Crowfoot Gravity Battery, size 6x8, complete, including jar, copper and zinc. Price, each......55

No. 14-A-68. Crowfoot Gravity Battery Jar, size 5x7. Price, each......13

No. 14-A-69. Crowfoot Gravity Battery Jar, size 6x8. Price, each......15

No. 14-A-70. Zinc for size 5x7 jar. Price......25

No. 14-A-71. Zinc for size 6x8 jar. Price......34

No. 14-A-72. Copper for size 5x7 jar. Price......07

No. 14-A-73. Copper for size 6x8 jar. Price......07

No. 14-A-74. Blue Vitriol, price per lb......10

**COLUMBIA DRY BATTERIES.**

These batteries have been before the public for years and are without question the most efficient and satisfactory batteries on the market. They will last much longer than other dry cell batteries and are guaranteed to give the utmost satisfaction.

Sizes 2 $\frac{1}{2}$ x6 inches and 3 $\frac{1}{2}$ x8 inches, are especially adapted for automobile and gasoline engine work.

No.	Size of Shell Inches	Amps.	Price Each
No. 14-A-75	1 $\frac{1}{2}$ x4	3 to 5	\$0.18
No. 14-A-76	2 x5	6 to 8	.20
No. 14-A-77	2 $\frac{1}{2}$ x6	12 to 15	.22
No. 14-A-78	3 $\frac{1}{2}$ x8	18 to 25	.60

**GLOBE DRY BATTERY.**

No. 14-A-79. Is made especially for open circuits and will give better results than any other dry battery of the same class. This battery is best suited for door bells and other similar work. It is 2 $\frac{1}{2}$  inch diameter, 6 inch high.

Price, each.....\$0.15  
Price, per dozen..... 1.75

**PUSH BUTTONS.**

No. 14-A-80. Wood push buttons, nicely finished in oak, ash, cherry or walnut. Price, each.....\$0.06  
Price, per dozen......70

**METAL PUSH BUTTON.**

No. 14-A-81. Bronze finish, 2 $\frac{1}{2}$  inch diameter. Price each.....\$0.12  
No. 14-A-82. Ornament a l metal push button, with open back. Size 4 $\frac{1}{2}$ x2 inches, polished bronze or old copper finish. Price, each.....\$0.30

**WOOD BASE SWITCHES.**

No. 14-A-83. Wood Base Switches, nicely finished in oak, walnut, black, cherry and mahogany finish.

1-point switch.....\$0.09  
2-point switch......10  
3-point switch......12  
4-point switch......13

**JUMP SPARK COILS.**

For stationary and marine engines. Gives a hotter spark and is more efficient than any other box type coil manufactured. It is encased in an oak box. The internal construction is of transformer type and is in every sense fully guaranteed.

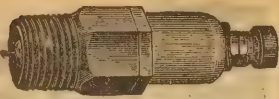
Furnished for one, two and four cylinder engines.  
No. 14-A-84. Jump Spark Coil for 1 Cylinder Engine.....\$ 4.75  
No. 14-A-85. Jump Spark Coil for 2 Cylinder Engine..... 9.00  
No. 14-A-86. Jump Spark Coil for 4 Cylinder Engine..... 18.00





**SPARK PLUGS**

An important feature in connection with the successful operation of gasoline engines using



Jump Spark Coils is the Spark Plug. A few features of this Spark Plug are sure fire, long life and platinum points. This Plug is the highest type and is suitable for use in automobiles, launches or stationary engines. Each Plug fully guaranteed. Furnished with 3/4 inch standard pipe thread.

No. 14-A-87. Porcelain Spark Plug. Price, each ..... \$0.57  
No. 14-A-88. Mica Spark Plug. Price, each. .80

**RUBBER COVERED WIRE**

Rubber covered, solid conductor copper wire, single braid. The wires are braided with a standard cotton yarn, the braid being thoroughly saturated with pure wax compound, having a high melting point, and are smoothly and evenly finished. Prices quoted are subject to market changes.

	B. & S. Gauge	Price per 1,000 ft.	Price per 100 ft.
No. 14-A-89	12	\$ 8.40	\$ .85
No. 14-A-90	14	11.50	1.20
No. 14-A-91	10	13.80	1.40
No. 14-A-92	8	20.70	2.10
No. 14-A-93	6	31.00	3.15

**LAMP CORD NATIONAL CODE STANDARD**

Cotton covered. Composed of two twisted conductors, and used for drop lights, fans, etc.

	B. & S. Gauge	Price per 1,000 ft.	Price per 100 ft.
No. 14-A-94	20	\$10.65	\$1.20
No. 14-A-95	18	13.00	1.40
No. 14-A-96	16	16.60	1.80

**SILK COVERED LAMP CORD**

	B. & S. Gauge	Price per 1,000 ft.	Price per 100 ft.
No. 14-A-97	18	\$18.48	\$2.03
No. 14-A-98	16	22.14	2.44

**EDISON PLUG CUT-OUTS**

Approved for use on circuits up to 125 volts. Fitted with screw contacts requiring no solder.

No. 14-A-99. 30 Amp., Single Pole, Main Line Edison cut-out.....	\$0.07
No. 14-A-100. 30 Amp., Double Pole, Single Branch Edison Plug Cut-out.....	.12
No. 14-A-101. 30 Amp., Double Pole, Double Branch Edison Plug Cut-out.....	.24
No. 14-A-102. 30 Amp., 3-wire to 2-wire, Double Branch Edison Plug Cut-out.....	.25

**EDISON FUSE PLUGS**

Used in connection with Edison Plug Cut-outs.

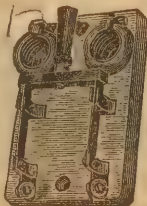
	Amp. Plug Fuses	Price Each
No. 14-A-103.	3	\$0.05
No. 14-A-104.	6	.05
No. 14-A-105.	10	.05
No. 14-A-106.	12	.05
No. 14-A-107.	15	.05
No. 14-A-108.	20	.05
No. 14-A-109.	25	.05
No. 14-A-110.	30	.05

**COMBINATION SWITCH AND CUT-OUT**

The National Board of Fire Underwriters requires that where a surface wire enters a building a main cut-off switch and also a main fuse be installed in order to be able to cut out all electric currents in the building by throwing the entrance switch in case of fire. They can also be used for motor switches.

The Edison Fuse Plugs up to 30 Amps. can be used in connection with this switch.

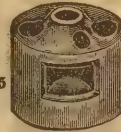
No. 14-A-111. 125 volt 25 Amp. Double Pole Combination Switch.....	\$0.60
No. 14-A-112. 250 volt 25 Amp. Double Pole Combination Switch.....	.65
No. 14-A-113. 250 volt 25 Amp. Triple Pole Combination Switch.....	.95

**PORCELAIN CEILING ROSETTES**

No. 14-A-114. Cleat style. Price, each, \$0.10  
No. 14-A-115. Ceiling Rosettes, concealed type. Price, each ..... .10

**PORCELAIN CEILING BUTTONS**

Self tying type. Price, each, \$0.05

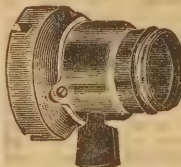
**ATTACHMENT PLUGS**

To be connected with lamp cord. Will fit any standard Edison base socket and any length of cord may be used to suit conditions. It is thereby possible to extend the light into otherwise inaccessible parts.

No. 14-A-116. Attachment plugs, fuseless, brass cap fuses. Price, each ..... \$0.15  
No. 14-A-117. Porcelain cap attachment plugs, fuseless. Price, each ..... .15

**PORCELAIN EDISON CLEAT RECEPTACLE**

No. 14-A-118. Price, each \$0.05

**PORCELAIN BASE WALL SOCKETS**

Brass cap and removable ring.

No. 14-A-119. Edison Key Wall Socket. Price ..... \$0.27  
No. 14-A-120. Edison Keyless Wall Socket. Price ..... \$0.20

**PORCELAIN WATERPROOF SOCKETS WITH HOOD**

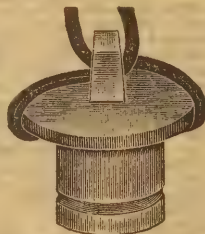
Porcelain socket fitted with 8 in. No. 14 B. & S. stranded rubber-covered wire. Extension edge of hood carries the drop away from the lamp and socket. Extra hole in porcelain in top allows extension by cord if desired.

No. 14-A-121. Price, each ..... \$0.30

**PORCELAIN WATERPROOF SOCKETS**

Plain, without hood. Each socket fitted with 8 in. No. 14 B. & S. stranded rubber-covered wire.

No. 14-A-122. Price, each ..... \$0.11

**EDISON BASE STANDARD SOCKETS**

Polished brass shell fiber lined. National Code standard.

No. 14-A-123. Edison Key Socket. Price, each, \$0.19  
No. 14-A-124. Edison Keyless Socket. Price, each ..... \$0.18

**HUBBELL PULL SOCKET**

The strongest and most durable Pull Socket manufactured. These sockets can be used in any place where an ordinary socket is used and are especially desirable on portables and where chandeliers are too high to be easily reached. Pull Sockets will appeal to the user.

No. 14-A-125. Edison base pull socket with chain 8 in. long. Price, each ..... \$0.37

**PENDANT SWITCH**

Used for controlling Electroliners, Ceiling Clusters and other fixtures that are out of reach and not connected with wall switch. This switch is attached by lamp cord to the fixture and current is shut off and on by pushing button. Not suitable for over 125 volts.

No. 14-A-126. 5 Amp. Price, each ..... \$0.30  
No. 14-A-127. 10 Amp. Price, each ..... \$0.48

**RECEPTACLE PLUG CLUSTERS**

Can be used in connection with Edison base sockets. We furnish Clusters in 2, 3 and 4 lights.

No. 14-A-128. 2-light Cluster. Price, each ..... \$0.70  
No. 14-A-129. 3-light Cluster. Price, each ..... \$0.92  
No. 14-A-130. 4-light Cluster. Price, each ..... \$1.12

**INDICATING SNAP SWITCH**

This style of switch is used in connection with electric lighting work.

No. 14-A-131. 5 Amp. Single Pole 220-volt Indicating Snap Switch... \$0.30  
No. 14-A-132. 10 Amp. Double Pole 220-volt Indicating Snap Switch... \$0.38  
No. 14-A-133. 20 Amp. Double Pole 220-volt Indicating Snap Switch... \$0.70  
No. 14-A-134. 30 Amp. Double Pole 220-volt Indicating Snap Switch... \$1.00

**BABY KNIFE SWITCHES**

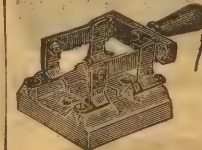
Porcelain base, polished blade, black lacquered handle.

No. 14-A-135. 15 Amp. Single Pole Single Throw. Price, each ..... \$0.20  
No. 14-A-136. 25 Amp. Single Pole Single Throw. Price, each ..... \$0.25  
No. 14-A-137. 15 Amp. Single Pole Double Throw. Price, each ..... \$0.32  
No. 14-A-138. 25 Amp. Single Pole Double Throw. Price, each ..... \$0.35

**DOUBLE POLE KNIFE SWITCHES**

Porcelain base, 125 volt, polished blade, black lacquered handle.

No. 14-A-139. 15 Amp. Double Pole Single Throw. Price, each ..... \$0.25  
No. 14-A-140. 25 Amp. Double Pole Single Throw. Price, each ..... \$0.30  
No. 14-A-141. 15 Amp. Double Pole Double Throw. Price, each ..... \$0.42  
No. 14-A-142. 25 Amp. Double Pole Double Throw. Price, each ..... \$0.50

**KNIFE SWITCH**

No. 14-A-143. Slate Base. 25 Amp. Double Pole Single Throw 250 volt. Price, each... \$0.40





## PORCELAIN TUBES



No. 14-A-144.

Length  
inches  
under  
head

Size of Hole	Size of Hole
5/16"	3/8"
For No. 12 & 14	For No. 6, 8 &
Rub'r Cov'd	10 Rub'r Cov'd
Wire	Wire

	Price per 100	
1 1/2	\$0.38	\$0.41
2	.41	.43
2 1/2	.43	.47
3	.47	.55
4	.51	.59
5	.92	1.08
6	1.17	1.40
8	2.16	2.52

TWO WIRE PORCELAIN CLEAT  
For electric wiring purposes.

No. 14-A-145. For Nos. 12 and 14 B. & S. Rubber Covered Wire. Price, per 100...\$1.21

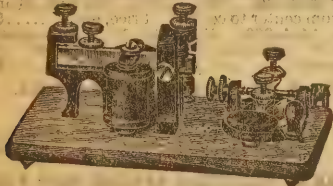
No. 14-A-146. For Nos. 6 to 10 B. & S. Rubber Covered Wire. Price, per 100...\$1.70

## SPLIT PORCELAIN KNOBS

Saves the time, wire and labor of tying, National Code Standard 1" from groove to base.

No. 14-A-147. For No. 10 B. & S. Wire and small-er. Price, per 100...\$1.66

No. 14-A-148. For Nos. 4 and 8 B. & S. Wire. Price, per 100...\$1.75

LEARNERS' TELEGRAPH OUTFIT  
4 OHM LEARNERS' INSTRUMENT

Particularly adapted for beginners or on short private lines. It is well made and has the same adjustments as the higher priced instruments used by the large telegraph companies.

It is mounted on a highly polished oak base. Brass work is polished and lacquered. It gives a loud, clear sound. The sounder has covered magnets wound to four ohms resistance. This is the best made Learners' Outfit on the market.

No. 14-A-149. Complete with Instruction Book containing Morse Code Alphabet, one dry battery and connecting wires...\$1.48

## DOUBLE LEARNERS' TELEGRAPH OUTFIT

This outfit consists of two 4 Ohm instruments, four dry batteries, 300 feet of insulated copper wire and two instruction books.

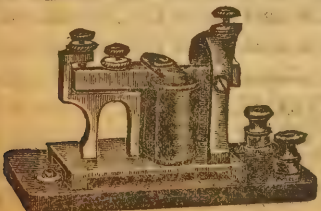
No. 14-A-150. Price complete.....\$3.90

## 20 OHM LEARNERS' INSTRUMENT

Made in the same general manner as our 4 Ohm instruments with the exception that the magnets are wound to 20 Ohm resistance, making it possible to use on longer lines.

No. 14-A-151. Price without wire or battery...\$1.65

## NEW IMPROVED GIANT SOUNDER



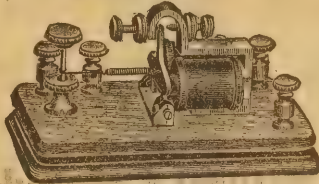
This instrument is furnished with

aluminum lever. It is unequalled for quick action, loudness and clear tone. Its proportions are scientifically correct. One cell of ordinary Crowfoot battery will operate this instrument, producing a sound louder and clearer than can be obtained from any other sounder with two cells of battery.

No. 14-A-152. 4 Ohm new Improved Giant Sounder. Price.....\$1.60

No. 14-A-153. 20 Ohm new Improved Giant Sounder. Price.....\$1.85

## STANDARD PONY RELAY



This is a finely finished and excellent relay. Its use will enable work on private lines of 1 to 100 miles in length, doing it with perfect ease, in many cases where main line sounders fail to give satisfaction. It requires much less battery power to operate it than does a main line sounder of similar resistance. Finely finished and mounted on polished mahogany base with ornamental metallic sub-base.

No. 14-A-154. 4 Ohm Pony Relay...\$1.75

No. 14-A-155. 20 Ohm Pony Relay...1.90

No. 14-A-156. 50 Ohm Pony Relay...2.25

No. 14-A-157. 75 Ohm Pony Relay...2.35

## IMPROVED GIANT RELAY



This is the finest Relay manufactured, and guaranteed to give the very best satisfaction under all conditions. Wound with silk covered wire. Polished rubber covered coils. Highly polished mahogany base mounted on an ornamental sub-base with extension adjustment.

In addition to the excellent merit of these relays in all the usual details of construction and finish, the special advantages consist in the armature and lever, which is all struck from a single piece of finest iron; the improved form of trunnion seat and the improved magnet adjustment, making it the finest type of Relay ever constructed.

No. 14-A-158. 100 Ohm Giant Relay...\$4.10

No. 14-A-159. 150 Ohm Giant Relay...4.25

No. 14-A-160. 200 Ohm Giant Relay...4.50

No. 14-A-161. 300 Ohm Giant Relay...4.65

PERFECTION STEEL LEVER KEYS  
Legless.

The lever and trunnions are made of one piece of fine wrought steel. The common defect of loose trunnions is avoided. The spring is obtained without much less weight of metal. The solid trunnions give a perfect bearing and with the use of hardened Platina Points sticking is absolutely prevented.

No. 14-A-162. Price, each.....\$1.10

PERFECTION STEEL LEVER KEYS  
WITH LEGS

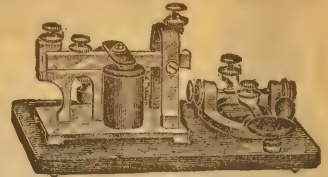
This instrument is made exactly the same as our Legless Key with the exception that it is made with legs which go through the table. These legs being threaded and fitted with thumb bolts it can be firmly attached.

No. 14-A-163. Price, each.....\$1.20

COMBINATION GIANT SOUNDER AND  
STEEL LEVER KEY

Consists of a standard Giant Sounder with aluminum lever. Finely finished with

rubber covered coils, silk covered wire mounted on polished base with steel lever key. The handsomest and most perfect set of short line instrument ever produced.



No. 14-A-164. 4 Ohm Combination Set...\$3.00

No. 14-A-165. 20 Ohm Combination Set...3.25

## HOME MEDICAL BATTERY

This is a strictly high grade instrument, designed to meet the requirements of physicians or for home use. It comes complete in a handsome polished oak box with nickel trimmings. Operates with a dry battery. It consists of a coil giving both galvanic and Faradic currents. One nickel foot plate, two nickel plated hand electrodes, two sponge electrodes, two wood handles, silk cords, dry batteries, and a special instruction book entitled "Medical Electricity at Home."

Every outfit guaranteed to give perfect satisfaction. We wish to impress upon your mind that this outfit is as effective as any of the higher priced outfits.

No. 14-A-166. Price.....\$3.10

## ELECTRIC FANS



These are a combination desk and bracket fan; that is, they are adjustable so that they may be set on a desk or attached to the wall, having an adjustable bracket which permits them to be set at any angle.

Each fan is perfectly balanced before being placed on the motor, thus insuring quiet and smooth operation under all conditions and under all speeds.

The case which covers the working parts of the motor and the base are finished in black enamel. The fan and guards are lacquered brass. All bearings are genuine bronze and fitted with compression grease cups.

These fans are arranged to give four speeds with a range from 1,200 rpm. on the slow speed to 2,000 rpm. on the high speed. Our 12-inch fan will circulate more air than most of the larger fans on the market.

Prices do not include cord and attachment plug.

## DIRECT CURRENT FANS

No. 14-A-167. Size of blade 12 inches, 110 volt. Price.....\$12.00

No. 14-A-168. Size of blade 16 inches, 110 volt. Price.....\$14.50

No. 14-A-169. Size of blade 12 inches, 220 volt. Price.....\$13.00

No. 14-A-170. Size of blade 16 inches, 220 volt. Price.....\$15.50

## ALTERNATING CURRENT FANS

No. 14-A-171. Size of blade 12 inches, 110 volt, 60 cycle. Price.....\$13.00

No. 14-A-172. Size of blade 12 inches, 220 volt, 60 cycle. Price.....\$14.00

No. 14-A-173. 8-foot cord and attachment plug. Price.....\$0.50



## Incandescent Lamps

Brand New and Perfect, Representing America's Best Makes

Our enormous sales in Incandescent Lamps has placed us in a position to make the most favorable contracts with the largest lamp manufacturers in America and enables us to offer lamps that are perfect and in every way guaranteed at prices that mean economy to you.

When ordering be sure and state voltage and candle power required.

## Clear Incandescent Lamps

Edison Base

	Voltage	Candle Power	Price, case lots of 200 lamps.	Price, less than case lots.
No. 14-A-174.	100 to 120	16	\$0.10	\$0.12
No. 14-A-175.	104 to 110	8	.10	.12
No. 14-A-176.	101	8	.08	.10
No. 14-A-177.	102	8	.07	.09
No. 14-A-178.	102	8	.09	.11
No. 14-A-179.	200 to 250	16	.13	.15
No. 14-A-180.	200 to 250	8	.12	.14
No. 14-A-181.	130	10	.07	.09
No. 14-A-182.	211	10	.09	.11
No. 14-A-183.	220	10	.11	.13

## Amber Natural Colored Lamps

Edison Base

THIS IS A SPECIAL LOT OF GENERAL ELECTRIC INCANDESCENT LAMPS which we are offering at very special prices subject to stock on hand at the time of receiving order. We strongly advise that you anticipate your wants as it is not likely that we will be able to furnish lamps of this kind at such low prices when this lot is gone.

No.	Quantity on hand.	Voltage.	Candle Power.	Price case lots of 200 lamps, each.	Price less than case lots, each.
No. 14-A-184.	13,000	104	8	\$0.09	\$0.10

## Green Natural Colored Lamps

Edison Base

GENERAL ELECTRIC MAKE SAME AS LOT NO. 14-A-184.

No.	Quantity on hand.	Voltage.	Candle power.	Price each
No. 14-A-185.	400	104	8	\$0.13

## Miscellaneous Electrical Apparatus

In connection with our purchases of Expositions and large Industrial Plants, we secure immense quantities of electrical, as well as other material. We list herewith a number of special bargains, all of which are offered subject to stock on hand at the time of receiving orders. This list does not in any sense cover our entire stock. Send us a list of your requirements when in the market for anything electrical.

### ARC LAMPS.

No. 14-A-186. 8 Helios Arc Lamps, Brand New, alternating current, 125 to 133 cycles, open type, guaranteed perfect. Price, each.....\$4.00  
No. 14-A-187. 5 A. B. Arc Lamps, direct current, 110 volts, enclosed type, second-hand, in perfect operative condition. Price, each.....\$4.00

### INSTRUMENTS.

No. 14-A-188. 8 Stanley Watt Meters, Brand New, direct reading, 25 cycle, alternating, guaranteed perfect. Price, each.....\$50.00  
No. 14-A-189. 1 Thomson Recording Watt Meter, second-hand, type "M," class 96, form S. A. Price.....\$5.00  
No. 14-A-190. 1 Thomson Recording Watt Meter, second-hand, type "M," class 100, form D. & M. Price.....\$5.00  
No. 14-A-191. 3 Westinghouse Am-meters, second-hand, from 0 to 200. Price, each.....\$10.00  
No. 14-A-192. 1 Weston Am-meter, second-hand, D. C., 0 to 1200 Amp. Price.....\$10.00  
No. 14-A-193. 1 Westinghouse Volt Meter D. C., second-hand, 0 to 600 volts. Price.....\$12.00  
No. 14-A-194. 1 Am-meter D. C., second-hand, from 0 to 400. Price.....\$7.50  
No. 14-A-195. 1 Am-meter D. C., second-hand, from 0 to 200. Price.....\$7.50  
No. 14-A-196. 1 Benton & McDonald D. C. Am-meter, second-hand, 0 to 150. Price.....\$8.50  
No. 14-A-197. 3 Keystone Am-meters A. C., second-hand, 0 to 1000, without shunts. Price.....\$7.50  
No. 14-A-198. 1 Keystone Am-meter A. C., second-hand, 0 to 200. Price.....\$7.50  
No. 14-A-199. 1 Stanley Am-meter A. C., second-hand, 0 to 40. Price.....\$8.50  
No. 14-A-200. 1 Stanley Static Ground Detector, second-hand, 2400 volts. Price.....\$15.00  
No. 14-A-201. 1 Thomson-Houston Current Indicator, second-hand, 0 to 80 Amp., D. C. Price.....\$2.50  
No. 14-A-202. 2 Wagner Watt Meters A. C., second-hand, 25 cycles, reading from 0 to 1600 K. W. Price.....\$15.00  
No. 14-A-203. 1 Westinghouse Power Factor Meter, second-hand, 1200 Amp., 6,000 volts, 3,000 alternations. Price.....\$45.00  
No. 14-A-204. 1 Slattery Induction Volt Meter, second-hand, from 0 to 55 volts. Price.....\$3.50  
No. 14-A-205. 1 Thomson Portable Alternating Am-meter, Brand New, 0 to 10 Amp. Price.....\$15.00  
No. 14-A-206. 1 Thomson Portable Alternating Am-meter, Brand New, 0 to 5 Amp. Price.....\$15.00

### TRANSFORMERS.

No. 14-A-207. 1 Westinghouse, 15 K. W., Oil Type Transformer, second-hand, 440 to 220 and 110 volt. Price.....\$75.00  
No. 14-A-208. 4 Westinghouse Transformers, second-hand, 10 K. W., oil type, 440 to 220 and 110 volt. Price, each.....\$60.00  
No. 14-A-209. 2 Westinghouse Transformers, second-hand, 5 K. W., oil type, 440 to 110 volt. Price, each.....\$40.00  
No. 14-A-210. 1 Metallic Circuit Telephone Switchboard, oak cabinet, second-hand, 100 drops. Price.....\$40.00  
No. 14-A-211. 1 Wolsack Company Watchman's Register, 16 station, second-hand.....\$20.50  
No. 14-A-212. 1-12 drop, oak frame Annunciator, second-hand. Price.....\$3.00  
No. 14-A-213. 500 Opalescent Shades for Miniature lamps, second-hand. Price, each.....\$0.05  
No. 14-A-214. 100 Assorted Shades for 2 1/2 inch Holders, second-hand. Price, each.....\$0.10  
No. 14-A-215. 8 Reverse Current Relays, second-hand. Price, each.....\$3.00  
No. 14-A-216. 1-25 line Telephone Terminal Post Head, second-hand.....\$5.00  
No. 14-A-217. 21 Bryant-Cleveland Arc Cut-outs, second-hand. Each.....\$0.50  
No. 14-A-218. 200 Single Pole Slate Base Fuse Blocks, 15 to 30 Amp., 2,500 volt, spring clips, without fuse, second-hand. Price, each.....\$0.20  
No. 14-A-219. 100 Single Pole Slate Base Fuse Blocks, 50 to 100 Amp., 250 volt, spring clip, second-hand. Each.....\$0.20

### NOARK FUSES.

Brand New.

No. 14-A-220. Screw clamp, type "A," 155 Amp., 500 volts, 6 1/2 inches long from center to center. Price, each.....\$0.10  
No. 14-A-221. 50, 60 to 150 Amp., assorted, 500 volts, 7 1/2 inches long from center to center. Price, each.....\$0.15  
No. 14-A-222. 12, 2 to 10 Amp., assorted, 500 volts, 5 1/2 inches long from center to center. Price, each.....\$0.05  
No. 14-A-223. 3, 200 Amp., 500 volt, 8 inches long from center to center. Price, each.....\$0.15  
No. 14-A-224. 100, 60 to 100 Amp., assorted, 220 volts, 5 inches long from center to center. Price, each.....\$0.10  
No. 14-A-225. 8, 150 Amp., 220 volt, 5 1/2 inches long from center to center. Price, each.....\$0.15  
No. 14-A-226. 5, 175 Amp., 220 volts, 7 inches long from center to center. Price, each.....\$0.15

### NOARK SPRING CLIP FUSES.

Type "C"

Brand New.

No. 14-A-227. 300, 60 amp., 220 volts, 4 inches long from center to center. Price, each.....\$0.13  
No. 14-A-228. 300, 75 Amp., 220 volts, 4 inches long from center to center. Price, each.....\$0.13

### NOARK DOUBLE KNIFE CONTACT FUSES.

Type "D"

Brand New.

No. 14-A-229. 10, 200 Amp., 220 volt, 5 inches

long from center to center. Price, each.....\$0.20  
No. 14-A-230. 50, 200 Amp., 500 volt Square Terminal to fit Type "C" Noark Fuse Blocks. Price, each.....\$0.25

### D. & W. SPRING CLIP FUSES.

Type "C"

Brand New.

No. 14-A-231. 100, 3 Amp., 500 volt, 4 1/2 inches long from center to center. Price, each.....\$0.05  
No. 14-A-232. 25, 4 to 10 Amp., assorted, 500 volt, 4 1/2 inches long from center to center. Price, each.....\$0.05

### D. & W. SCREW CLAMP FUSES.

Type "A"

Brand New.

No. 14-A-233. 12, 25 Amp., 500 volt, 6 1/2 inches long from center to center.....\$0.10

### GENERAL ELECTRIC SPRING CLIP FUSES.

Brand New.

No. 14-A-234. 300, 3 Amp., 600 volts, 3 inches long from center to center.....\$0.04  
No. 14-A-235. 20, 10 Amp., 600 volts, 5 1/2 inches long from center to center.....\$0.04  
No. 14-A-236. 15, 20 Amp., 500 volt, 5 1/2 inches long from center to center.....\$0.04  
No. 14-A-237. 12, 12 Amp., 500 volt, 5 1/2 inches long from center to center.....\$0.04  
No. 14-A-238. 50, 30 Amp., 2,500 volt, Expulsion Fuses, G. E. No. 51296.....\$0.25  
No. 14-A-239. 200 Single Pole Slate Base Fuse Blocks, 5 to 30 Amp., spring clip without fuse, second-hand. Price.....\$0.20  
No. 14-A-240. 100 Single Pole Slate Base Fuse Blocks, 50 to 100 Amp., spring clip without fuse, second-hand. Price.....\$0.20  
No. 14-A-241. 900 T. H. to Edison Base Adapters. Price.....\$0.03  
No. 14-A-242. 28 Fletcher Spreader Brackets. Each.....\$0.15  
No. 14-A-243. 50 No. 1038 Fletcher Brackets. Price.....\$0.10  
No. 14-A-244. 100 No. 1008 Fletcher Brackets. Price.....\$0.10

### SINGLE THROW KNIFE SWITCHES.

Second-Hand.

No. 14-A-245. 4, 600 to 625 Amp., 250 volt, double pole. Each.....\$5.50  
No. 14-A-246. 2, 800 Amp., 500 volt, triple pole. Each.....\$10.50  
No. 14-A-247. 2, 600 Amp., 500 volt, triple pole. Each.....\$9.00  
No. 14-A-248. 2, 200 Amp., 500 volt, triple pole. Each.....\$5.00  
No. 14-A-249. 5, 100 Amp., 500 volt, triple pole. Each.....\$2.00  
No. 14-A-250. 1, 300 Amp., 250 volt, with fuse block, triple pole. Each.....\$10.00  
No. 14-A-251. 1, 150 Amp., 250 volt, double pole fused. Each.....\$1.50  
No. 14-A-252. 1, 100 Amp., 250 volt, double pole fused. Each.....\$1.00  
No. 14-A-253. 3, 50 Amp., 250 volt, double pole fused. Each.....\$0.75



# SMOKE STACKS



Send us your Specifications for any work you may require in this line. We can make Stacks of any size or in other gauges than described. Our prices are invariably low.

We Guarantee both Material and Workmanship of all Smoke Stacks and Connections.

We have a finely equipped shop for the purpose of working sheet iron. We can make up Smoke Stacks, Boiler Breechings, Smoke Boxes and Extensions in any size and shape. With our unusual facilities we can save you money on any purchase that you may make in this line.

In connection with our purchases of complete power plants, we generally have on hand a large number of fine second-hand stacks. It is possible we have the size you want; if so, we can show you a big saving. Any second-hand stack that we furnish is guaranteed to be in good sound condition; the metal is not rusted or otherwise corroded. All stacks are painted with a special black mineral paint that protects the metal from the weather and prevents corrosion.

We can ship stacks knocked down. The prices which we quote are for stacks shipped made up in sections. However, if shipped knocked down you may deduct 5% from these prices. The freight rate on stacks shipped knocked down is very much less than when made up and shipped in sections. By the term "knocked down" we mean that the sheets are formed, punched and already to be riveted together. All holes are properly spaced and the stack can be very easily put together on the job. We furnish the necessary rivets. It does not require an expert to rivet the stack. Any one who is handy with tools can do it.

Our quotations on stacks are for the plain round stack, the same diameter at the base as at the top. Where there is a tapering, round, or oval base or an umbrella top required there would be an extra charge as noted below. Our quotations include the guy and top bands.

**Guy Wire is not included**

## Prices on Smoke Stacks

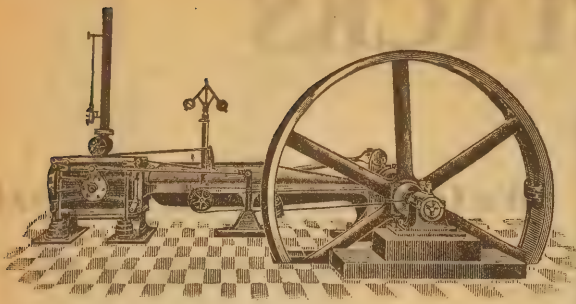
	Diam. of stack, in.	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	44	46	48
No. 12-A-1	Price per foot 16 gauge iron...	\$0.40	\$0.50	\$0.56	\$0.66	\$0.70	\$0.82	\$0.84	\$0.90	\$0.98	\$1.05	\$1.10	\$1.25								
No. 12-A-2	Price per foot 14 gauge iron...	0.54	0.55	0.63	0.75	0.78	0.87	0.90	1.02	1.15	1.20	1.25	1.35								
No. 12-A-3	Price per foot 12 gauge iron...	0.67	0.68	0.75	0.85	0.93	0.97	1.10	1.25	1.30	1.50	1.55	1.60	\$1.65	\$1.75	\$1.75	\$1.90	\$2.05	\$2.15	\$2.35	\$2.60
No. 12-A-4	Price per foot 10 gauge iron...													1.70	1.85	1.95	2.20	2.45	2.55	2.75	2.85
No. 12-A-5	Price per foot 8 gauge iron...													2.05	2.25	2.45	2.65	2.85	2.90	3.00	3.10
No. 12-A-6	Damper in stack, extra...	1.80	2.00	2.15	2.15	2.15	2.75	2.75	2.75	3.00	3.00	3.00	3.50	3.50	3.50	4.00	4.00	5.00	5.00	5.50	6.00
No. 12-A-7	For Round or Oval Bases...	1.50	1.65	1.90	2.25	2.50	2.50	2.50	3.00	3.45	3.75	3.75	4.00	5.00	5.50	5.75	6.00	7.00	7.50	8.25	8.50
No. 12-A-8	For Umbrella Top	1.50	1.65	1.90	2.25	2.50	2.50	2.70	3.00	3.45	3.75	3.75	4.00	5.00	5.50	5.75	6.00	7.00	7.50	8.25	8.50

## Galvanized Wire Rope for Guys

No. 12-A-9	Price per foot on Guy Wire, up to 24 inch.	\$0.01
No. 12-A-10	Price per foot on Guy Wire, larger sizes.	.02

Note:—In ordering round and oval bases, always give the outside measurements of the collar over which they fit; if for round bases give the diameter; if for oval base give the outside measurements of both the length and width of the oval through the center.





## Corliss Engines

We have on hand at our warehouse, ready for immediate shipment, the following strictly high grade Corliss Engines, which have been very carefully gone over in our shop and trimmed up in a workmanlike manner. They are neatly painted and will put up a first class appearance.

We furnish each complete with all trimmings such as lubricator of standard type, throttle valve, all necessary oil cups, crank pin oiler and full set of foundation bolts, and blue print for settings.

No. 8-A-21. One 24 x48 left hand SIOUX CITY Corliss engine. Heavy duty.

No. 8-A-22. One 18"x36 Weatherhill Corliss Engine.

No. 8-A-23. Three pairs of 24x48 WHEELLOCK engines, equipped for rope drive.

No. 8-A-24. Three pairs of 36x60 WHEELLOCK engines, equipped for rope drive.

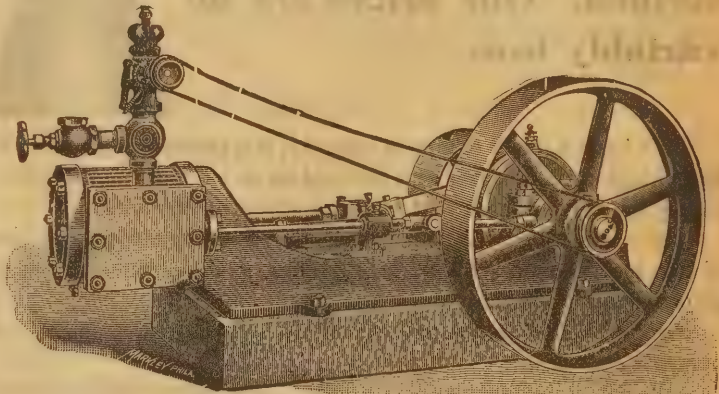
No. 8-A-24-B. One 16x42 ALLIS Corliss engine, R. H.

## Slide Valve Engines

In the following list will be found many of the prominent makes of slide valve engines, all of which have been properly gone over and are now ready for immediate shipment. Each engine is furnished complete with a standard governor, governor belt, throttle valve, lubricator, all necessary oil cups, drip valves, etc. In most cases these fittings are strictly brand new.

- No. 8-A-25. Four 4x 5" Vertical O. & S. Engines.
- No. 8-A-26. Five 5x 6" Horizontal O. S. Engines.
- No. 8-A-27. Three 6x 6" Vertical O. S. Engines.
- No. 8-A-28. Two 7x10" Horizontal Side Crank Atlas.
- No. 8-A-29. One 7x 9" Vertical N. Y. Safety.
- No. 8-A-30. Two 7x10" Horizontal Erie City.
- No. 8-A-31. One 8x10" Side Crank Erie City.
- No. 8-A-32. One 8x12" Horizontal C. C. Richards.
- No. 8-A-33. One 9x12" Horizontal C. C. Richards.
- No. 8-A-34. One 9x12" Horizontal C. C. Erie City.
- No. 8-A-35. One 9x14" Horizontal Side Crank Atlas.
- No. 8-A-36. One 10x12" Horizontal C. C. Atlas.
- No. 8-A-37. One 10x12" Horizontal C. C. Erie City.
- No. 8-A-38. One 10x12" Vertical C. C. New York Safety.
- No. 8-A-39. One 11x14" Horizontal Side Crank Atlas.
- No. 8-A-40. One 11x16" Horizontal Side Crank Atlas.
- No. 8-A-41. One 12x16" Horizontal C. C. Nagle.
- No. 8-A-42. One 12x16" Self contained Slide Crank, slide valve, Brownell.

- No. 8-A-43. One 13x18" Horizontal Side Crank Nagle.
- No. 8-A-44. One 14x18" Side Crank Self-contained Brownell.
- No. 8-A-45. One 14x20" Side Crank Heavy Duty Atlas.
- No. 8-A-46. One 14x24" Heavy Duty Side Crank Erie City.
- No. 8-A-47. One 16x24" Heavy Duty Side Crank Atlas.
- No. 8-A-48. One 16x24" Side Crank Fraser & Chalmers.
- No. 8-A-49. One 18x24" Heavy Duty Side Crank Atlas.



The above engines are fitted with standard wheels, or pulleys as furnished by the manufacturers, but from our large stock of band wheels and pulleys we are in a position to equip the engines with almost any size wheel desired.

## Horizontal Slide Valve Engines

### Brand New.

These are of the highest grade, center crank, single slide valve type. A glance at the outlines will show rigidity, strength, beauty of design and economy of floor space. Metal is carefully distributed so there is no useless weight. The rods are made of steel, the crank shaft of solid hammered steel, the brasses of phosphor bronze, and the bearings of the best babbit. The fittings and trimmings furnished with these engines are of the very best quality. Our price includes with the engine the following trimmings:

Governor, governor pulley, fly wheel, four (4) oil cups, sight feed indicator, throttle valves and nipples. This does not include steam exhaust pipe or foundation rods. Engine will be shipped from our factory in Pennsylvania.

We make five sizes as follows:

No. 8-A-49.

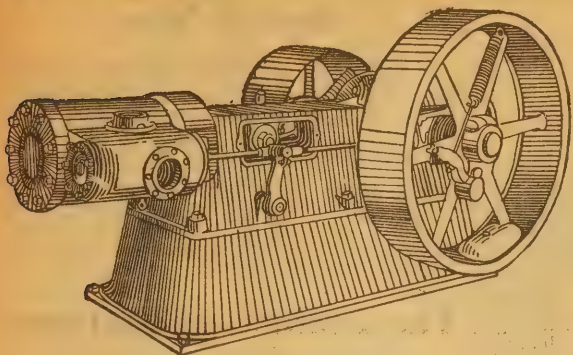
### Table of Dimensions and Price List.

Horse-power as usually rated.	6	8	10	12	16
Size of Cylinder, inches.	5x7½	6x7½	7x10	7½x10	8x10
Diameter of Steam-pipe, inches.	1½	1½	1½	1½	1½
Diameter of Exhaust-pipe, inches.	1½	1½	2	2	2
Diameter of Shaft, inches.	2½	2½	2½	2½	2½
Diameter and Face of Wheel, inches.	24x6	24x6	30x6½	30x6½	36x7½
Revolutions per minute.	14x7	14x7	16x7	16x7	18x7½
Floor Space required for base, inches.	250	250	250	250	180
Approximate Shipping Weight, pounds.	14½x47½	14½x47½	16x57	16x57	16x57
Price.	700	800	1300	1500	1500
	\$100.00	\$110.00	\$140.00	\$150.00	\$155.00



# Horizontal Automatic Engines—Brand New

## PRICES, SIZES AND SPECIFICATIONS OF CLIMAX HORIZONTAL AUTOMATIC ENGINES



No. 8-A-50

Horse Power Standard Rating	CYLINDER		Revolutions	Automatic Pulley		Belt Pulleys		PIPES		FLOOR SPACE		Weight	Price
	Diameter	Stroke		Diameter	Face	Diameter	Face	Steam	Exhaust	Width	Length		
8	5½	7	275	26	6½	16	8½	1½	2	20	46	1,275	\$135.00
10	6	7	275	26	6½	16	8½	1½	2	20	46	1,300	153.75
12	7	7	275	30	7½	16	10½	2	2½	20	46	1,430	167.00
16	7	8	275	30	7½	20	10½	2	2½	23	53	1,820	205.00
20	8	8	275	36	7½	20	10½	2	3	23	53	2,050	227.00
25	9	8	275	35	7½	24	10½	2½	3	23	53	2,200	266.75
30	8½	12	250	48	10½	24	12½	2½	3	32	78	4,425	380.50
40	9½	12	250	48	10½	25	14	3	3½	32	78	4,550	403.75
50	10½	12	250	48	12½	28	14	3½	4	32	78	4,700	455.50

Prices F. O. B. Our Factory in Michigan.

Additional Charge for Larger Belt Pulleys.

The distribution of metal in this frame is such that it is exceedingly strong and unyielding, having a broad flange base, well ribbed internally, to rest upon the foundation.

The cylinder and steam-chest are in one casting, and are bored at the same setting, insuring perfect alignment.

All wearing surfaces are large.

All parts interchangeable as far as consistent.

Perfect alignment of all parts.

Rated H. P. is based on initial steam pressure, 80 lbs. cutting off at ½ stroke.

Before shipment every engine is thoroughly tested, under steam pressure with a full load, and is properly adjusted and ready to put in service as soon as necessary connections are made.

We furnish with each engine a complete set of nickel plated oil cups, sight feed lubricator, throttle valve, drain cocks, and wrenches. Will furnish foundation bolts if desired at slight additional expense.

Each engine is mounted on a suitable cast iron base, so very little foundation is necessary.

## VERTICAL AUTOMATIC ENGINES—BRAND NEW

The Vertical Automatic Engine, here illustrated, is made from new patterns, combining many features that add to its simplicity, durability and economical performance. The frame is of such design as to combine beauty of outline and symmetrical shape with such distribution of metal, as to make it **Strong, Rigid and Unyielding** in every part. The top and bottom of each frame is "faced off" true in a lathe, and the main boxes are planed true. A majority of manufacturers of small engines do not do this, and it is essential to **Perfect Construction and Permanent Alignment**.

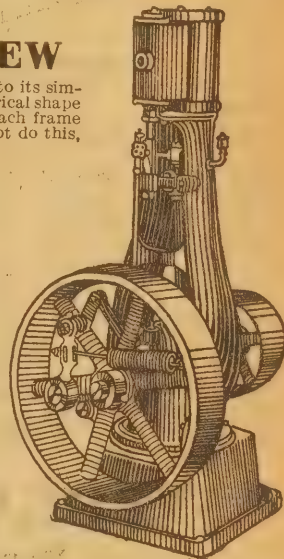
We recommend these engines, both Horizontal and Vertical, for **Electric Lighting** or any kind of duty.

They have been thoroughly tried, and have fully met all requirements.

Horse Power	Cylinder		Revolutions	Aut. Pul.		Belt Pul		Pipes		Fl'r Sp'ce		Weight	Price
	Dia.	Stroke		Dia.	Face	Dia.	Face	Stm.	Ext.	Wdh	L'gh		
3	3½	3½	450	16	4½	10	4½	1	1	13	13	315	\$ 53.50
4	4	4½	375	20	5½	10	6½	1	1	15½	15½	500	63.50
5	4½	5	375	20	5½	10	6½	1	1	15½	15½	520	71.00
6	5	6	300	24	5½	12	7½	1	1	18½	18½	750	81.00
7	5½	6	300	24	5½	12	7½	1	1	18½	18½	775	92.50
8	6	7	275	26	6½	16	8½	1	2	19	19	990	110.00
10	6½	7	275	26	6½	16	8½	1	2	19	19	1,050	135.00
12	7	7	275	30	7½	16	10½	2	2	19	19	1,190	155.00
16	7	8	275	30	7½	20	10½	2	2	22	22	1,475	189.00
20	8	8	275	35	7½	20	10½	2	2	22	22	1,700	208.25
25	9	8	275	35	7½	24	10½	2	2	22	22	1,900	246.25

Additional Charges for Larger Belt Pulleys.

Before shipment, every engine is thoroughly tested, under steam pressure with a full load, and is properly adjusted and ready to put in service as soon as steam connections are made. We furnish with each engine, a complete set of nickel plated oil cups, sight feed lubricator, throttle valve, drain cocks and wrenches. Will furnish foundation bolts if desired at slight additional expense. Prices F. O. B. our factory in Michigan.



No. 8-A-51

## VERTICAL SLIDE VALVE ENGINES

BRAND  
NEW

The following engines are all of the Vertical, Centercrank, Slide-valve type, with throttling Governor. They are very modern in construction and design and are built of the highest grade of material. They are well constructed throughout—built very compactly along the most improved lines and are neatly painted and finished.

As to quality of workmanship, they are superior to many and excelled by none. Before shipment every engine undergoes a very critical test under steam and is very carefully adjusted so that it is ready to run the moment it is placed in position and given steam.

We consider these engines the most desirable for general purposes where small power is required. They are well proportioned throughout and designed to stand hard work and high speed.

Each engine is furnished with governor, governor belt, governor pulley, oil cups, throttle valve, cylinder lubricator, belt pulley, fly wheel and is complete and ready to start. We do not furnish steam or exhaust pipe, nor do we furnish foundation bolts or rods.

Engine is shipped from our Factory in Pennsylvania.

### Table of Dimensions and Price List.

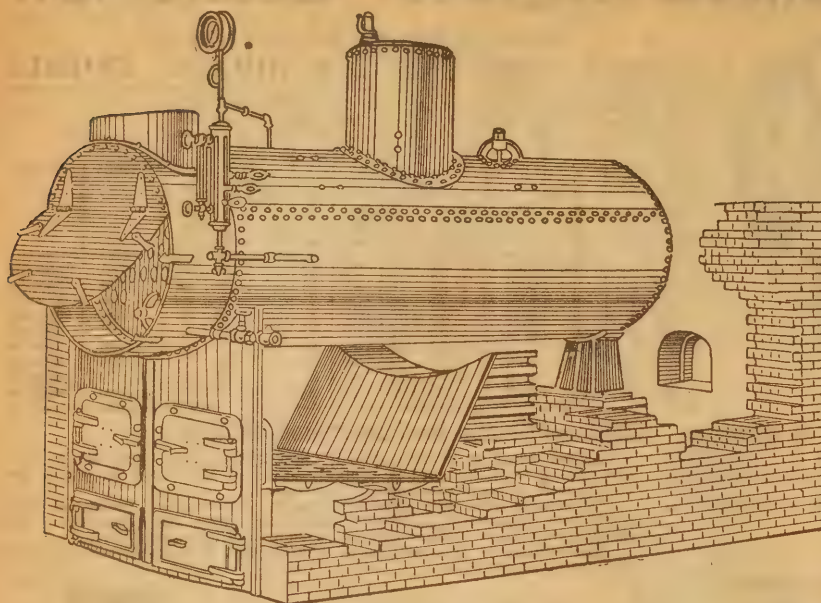
Horse power as usually rated	1½	2	4	6	8	12	15
Size of Cylinder, inches.....	2½x3	3x5	4x5	5x7½	6x7½	7x8½	8x8½
Revolutions per minute.....	400	350	325	250	225	220	200
Diameter of Steam-pipe, inches.....	1	1	1	1	1	1½	1½
Diameter of Exhaust-pipe, inches.....	1½	1½	1½	2	2	2	2
Diameter of shaft, inches.....	13x3½	15x4	17x4½	24x6	24x6	30x6½	36x7½
Diameter and Face of Wheel, inches.....	6x3	10x5	12x6	14x7	14x7	16x7½	18x7½
Diameter and Face of Pulley, inches.....	7	10	10	13	13	17½	19½
Height from Floor to Center of Shaft, inches.....	28	43	43	54	54	67	69
Height from Floor to Top of Cylinder, inches.....	13	17	17	20	20	24	24
Floor space occupied, inches square.....	200	400	450	700	800	1,500	1,600
Approximate weight, pounds.....	\$42.50	\$59.00	\$65.00	\$90.00	\$100.00	\$150.00	\$165.00
Price.....							

No. 8-A-52

Diameter of Exhaust-pipe, inches.....  
Diameter of shaft, inches.....  
Diameter and Face of Wheel, inches.....  
Diameter and Face of Pulley, inches.....  
Height from Floor to Center of Shaft, inches.....  
Height from Floor to Top of Cylinder, inches.....  
Floor space occupied, inches square.....  
Approximate weight, pounds.....  
Price.....



# HORIZONTAL TUBULAR BOILERS



No. 8-A-1

TABLE OF DIMENSIONS FOR No. 8-A-1

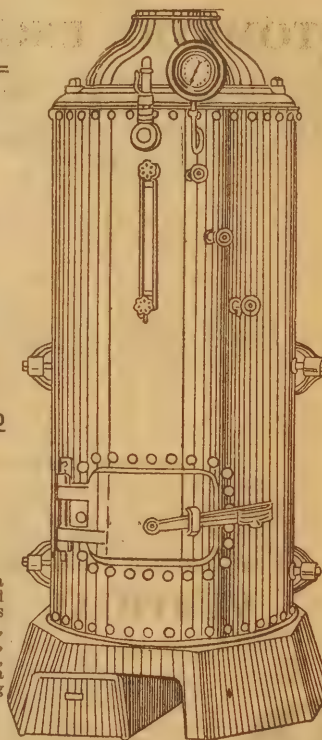
Number of Size.....	18	19	20	22	24	25
Horse-power as usually rated	10	12	15	20	25	30
Diameter of shell, inches.....	30	30	36	36	42	44
Length of Tubes, feet.....	7	8	8	10	10	10
Diameter of Tubes, inches.....	3	3	3	3	3	3
Number of Tubes.....	20	20	22	26	38	44
Diameter of Dome, inches.....	18	18	20	20	22	22
Height of Dome, inches.....	20	20	22	22	24	24
Thickness of Shell, inches.....	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$
Thickness of Dome-plate, in.....	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$
Thickness of Heads, inches.....	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$
Square Feet of Heating Surface.....	130	160	191	270	380	445
Length of Grates, inches.....	32	32	35 $\frac{1}{2}$	41 $\frac{1}{2}$	41 $\frac{1}{2}$	47 $\frac{1}{2}$
Width of Grates, inches.....	30	30	36	36	42	44
Diameter of Stack, feet.....	14	14	16	16	20	20
Length of Stack, inches.....	28	28	28	35	35	35
Weight of Boiler and Furnace, pounds, about.....	1,600	1,900	2,600	3,000	4,100	4,600
Weight of Boiler and Half- arch Fixtures, lbs., about.....	3,100	3,400	4,300	5,000	6,600	7,500
Price.....	\$150.00	\$160.00	\$205.00	\$240.00	\$330.00	\$350.00

## VERTICAL BOILERS

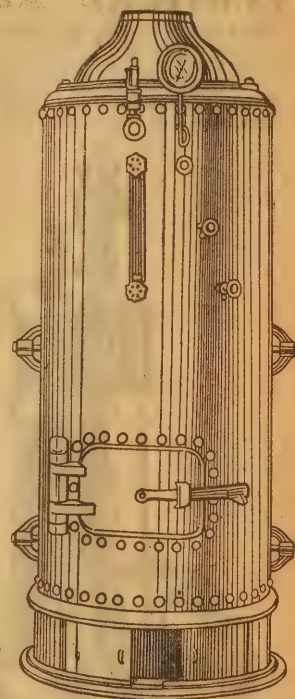
### Brand New

These boilers are made with flanged steel heads and shells of which have a tensile strength of 60,000 lbs. to the square inch. All sides are well braced with stay bolts, and all boilers 30" and upwards in diameter, have their seams double riveted. The fixtures furnished are base, grates, hood, steam gauge, glass water gauge, gauge cocks, either pop or safety lever valves, blow off valve, check and stop valve. Whistle, stack and piping are not included with boilers, but these can be furnished at very low prices. Our boilers are all tested to a hydrostatic pressure of 150 lbs. to the square inch, which insures their being absolutely tight, and sound in every respect.

Shipment will be made from our Factory in Pennsylvania.  
Can furnish with either round or octagon base.



No. 8-A-2



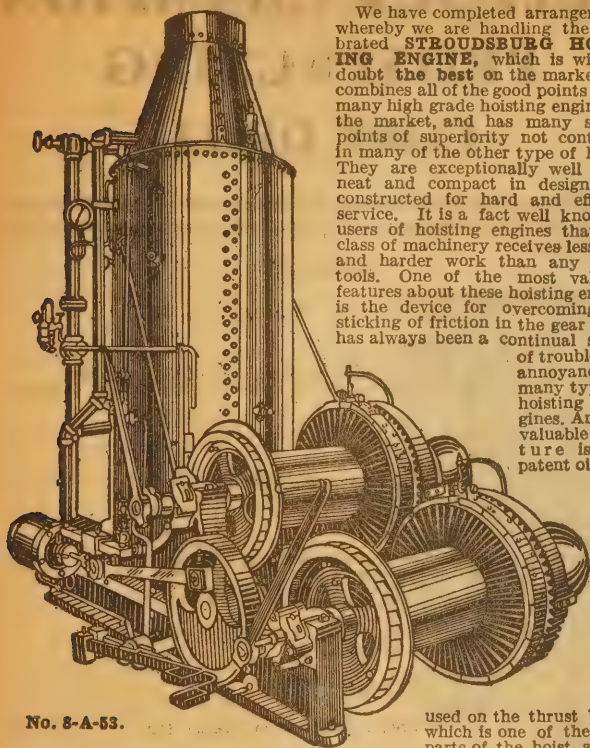
No. 8-A-3

TABLE OF DIMENSIONS AND PRICE LIST FOR No. 8-A-2 AND No. 8-A-3

Number of Size.....	O	A	B	1	2	3 $\frac{1}{2}$	4	5	6
Horse-power as usually rated.....	1 $\frac{1}{2}$	2	3	4	5	6	7	9	11
Diameter of Boiler, inches.....	20	20	20	24	24	27	30	30	30
Height of Boiler, feet.....	3	3 $\frac{1}{2}$	4	4	5	5	5	6	7
Diameter of Furnace, inches.....	16	16	16	19	19	21	24	24	24
Height of Furnace, inches.....	18	18	18	23	23	26	26	26	26
Thickness of Shell, inches.....	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Thickness of Heads, inches.....	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Thickness of Furnace Plate, in.....	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2	No. 2
Number of Tubes (all 2 inches in diameter)	16	19	19	24	24	30	42	42	42
Length of Tubes, inches.....	18	24	30	25	37	34	34	46	58
Square Feet of Heating Surface.....	18	25	30	39	51	59	75	96	107
Weight of Boiler without Fixtures, pounds, about.....	350	450	550	900	1000	1100	1200	1400	1600
Weight of Boiler with Fixtures, pounds.....	450	550	650	1300	1400	1500	1800	2000	2200
Price.....	\$40.00	\$45.00	\$50.00	\$70.00	\$75.00	\$85.00	\$105.00	\$120.00	\$135.00



## Double Drum Standard Hoisting Engine with Boiler.



No. 8-A-53.

We have completed arrangements whereby we are handling the celebrated **STROUDSBURG HOISTING ENGINE**, which is without doubt the best on the market. It combines all of the good points of the many high grade hoisting engines on the market, and has many salient points of superiority not contained in many of the other type of hoists. They are exceptionally well built, neat and compact in design, and constructed for hard and efficient service. It is a fact well known to users of hoisting engines that this class of machinery receives less care and harder work than any other tools. One of the most valuable features about these hoisting engines is the device for overcoming the sticking of friction in the gear which has always been a continual source of trouble and annoyance on many types of hoisting engines. Another valuable feature is the patent oil bath

used on the thrust boxes which is one of the vital parts of the hoist, and if

you intend purchasing a hoisting engine, we hope you will carefully consider the many improvements, and purchase a fully up-to-date machine which is designed to do good and rapid work and do it in the most efficient manner. We are having these hoists built in the following types:

**DOUBLE CYLINDER, SINGLE DRUM, WITH BOILER.**  
**DOUBLE CYLINDER, SINGLE DRUM, WITHOUT BOILER.**  
**DOUBLE CYLINDER, DOUBLE DRUM, WITH BOILER.**  
**DOUBLE CYLINDER, DOUBLE DRUM, WITHOUT BOILER.**

**Double Cylinder, Double Drum** with winch head, ratchet, pawls and fixtures, complete with foot brakes, for Contractors, Pile Driving, Quarries, Docks and Bridge Building, Sewer and Railroad Construction, Conveying and Operating Trench Machines, and for all work where a stiff, strong engine is required. The winches can be independent or fixed.

**THE STROUDSBURG** is a high-class engine. They are made right, run right, and are right. No pains have been spared to make this engine the best that money, skill and experience can produce. Made in sizes from 6 to 50 horse-power.

We build other style engines for all classes of work. Write for prices before placing your orders.

TABLE OF SIZES, Etc.

Engine No.	H. P. Usly	Dimen. of Cylinders.		Dimen. of Drums.		Dimensions of Boiler.		Dim. of Bed P.	Weight Hoisted S. Rope.	D. Suitable Wt. P. Hammer.	Estimated Shipping Weight.
		Dia.	Str'k	Dia.	Lgh.	Dia.	Hgt.				
1	6	5	6	10	20	28	68	40	44	71	1500
2	8	5	8	12	22	32	80	55	47	77	2000
3	12	6 1/2	8	14	22	34	84	60	50	84	3000
4	16	6 1/2	10	14	26	36	84	65	54	86	4000
5	20	7	10	14	26	38	90	77	55	92	5000
6	28	8	10	14	27	42	96	90	58	99	8000
7	40	8 1/2	12	16	32	46	102	125	66	104	10000
8	45	9	12	16	32	48	102	142	66	104	11000
9	50	10	12	16	32	50	102	155	72	115	12000

The above Engines can be furnished with Boom Swinging Gear.

No. 8-A-54.

**SINGLE DRUM STANDARD HOISTING ENGINE WITH BOILER.**  
 The double cylinder engines possess the special feature of having no centers, the cranks being connected at an angle of 90 degrees, thus being much easier to start, handle, etc.

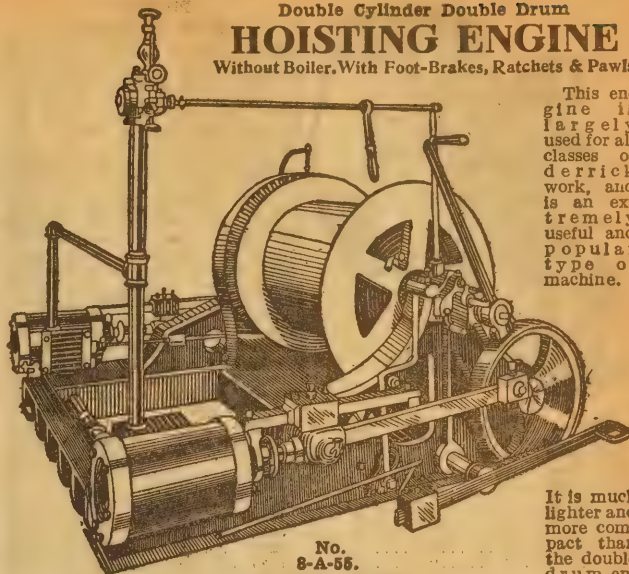
TABLE OF SIZES, Etc.

Engine No.	H. P. Usly	Dimen. of Cylinders.		Dimen. of Drums.		Dimensions of Boilers.		Dim. of Bed Plate.	Weight Hoisted S. Rope.	D. Suitable Wt. P. Hammer.	Estimated Shipping Weight.
		Dia.	Str'k	Dia.	Lgh.	Dia.	Hgt.				
11	6	5	6	10	20	28	68	41	57	1500	1000
12	8	5	8	12	22	32	80	55	46	82	2000
13	12	6 1/2	8	14	22	34	84	60	48	87	3000
14	16	6 1/2	10	14	26	36	84	65	52	89	4000
15	20	7	10	14	26	38	90	77	54	92	5000
16	28	8	10	14	27	42	96	90	57	95	8000
17	40	8 1/2	12	16	32	46	102	125	66	93	10000
18	45	9	12	16	32	48	102	142	66	93	11000
19	50	10	12	16	32	50	102	155	72	95	12000

## Double Cylinder Double Drum

## HOISTING ENGINE

Without Boiler, With Foot-Brakes, Ratchets &amp; Pawls



No. 8-A-55.

This engine is largely used for all classes of derrick work, and is an extremely useful and popular type of machine.

It is much lighter and more compact than the double drum engine

with boiler, and is adapted for use in places where steam or air is already supplied. In many instances a number of these engines are used by contractors, or in quarries, where the steam is furnished from one main boiler, with branch pipes running to the various engines. By this method only one engineer is required to attend the boiler, while the engines are operated by ordinary laborers, who after a little practice become quite skilful.

Each drum is provided with shrouded ratchets and pawls of ample strength to hold securely any load the engine can hoist.

A winch head of our regular form is attached to the outer end of each drum shaft, and can be used for hoisting or hauling.

Foot-brakes are strongly recommended, as they add to the safety and convenience of the engine and save wear on the drum frictions.

TABLE OF SIZES, Etc.

Engine No.	H. P. Usly	Dimen. of Cylinders.		Dimen. of Drums.		Dimen. of Bed-Plate.		Weight Hoisted, Single Rope.	Suitable Weight Pile-Driving Hammer.	Approximate Shipping Weight.
		Dia.	Str'k	Dia.	L'gt.	Wd.	L'gt.			
21	6	5	6	10	20	44	71	1500	1000	3500
22	8	5	8	12	22	47	77	2000	1500	4300
23	12	6 1/2	8	14	16	44	84	3000	2000	5000
24	16	6 1/2	10	14	18	46	86	4000	2800	6000
25	20	7	10	14	18	47	92	5000	3500	6500
26	28	8	10	14	20	50	99	8000	5000	7500
27	40	8 1/2	12	16	24	58	104	10000	8000	10000
28	45	9	12	16	24	58	104	11000	9000	11000
29	50	10	12	16	24	64	115	12000	10000	12000

The above Engines can be furnished with Boom Swinging Gear.

No. 8-A-56.

## Double Cylinder Single Drum Hoisting Engine.

**WITHOUT BOILER. WITH FOOT-BRAKE, RATCHET AND PAWL.**

These engines are of a most useful type and are largely used for general hoisting purposes where steam or compressed air are available. They are simple and compact; cannot get caught on the centers, and are safer and simpler to operate than single cylinder engines. They are well adapted for use on docks. They can be either fixed at definite points or mounted on dock wheels, and thus being portable can be concentrated at any place and unload a vessel very quickly. A few engines can be made to cover a large dock with efficiency and economy. They are also useful on steamers for handling freight, and on sailing vessels for handling cargo, sails, anchor, etc.

For small mines many are in use for depths of 50 to 200 feet or more, the drums usually being lagged, increasing the diameter about six inches.

Foot-brakes are strongly recommended, as they add to safety in handling and save wear on the drum friction.

A winch head is fixed to the outer end of the drum shaft.

TABLE OF SIZES, Etc.

Engine No.	H. P. Usly	Dimen. of Cylinders.		Dimen. of Drums.		Dimen. of Bed-Plate.		Weight Hoisted, Single Rope.	Suitable Weight Pile-Driving Hammer.	Approximate Shipping Weight.
		Dia.	Str'k	Dia.	Lgh.	Wd.	Lgh.			
31	6	5	6	10	20	41	57	1500	1000	1800
32	8	5	8	12	22	46	62	2000	1500	2200
33	12	6 1/2	8	14	16	42	67	3000	2000	2800
34	16	6 1/2	10	14	18	45	69	4000	2800	3200
35	20	7	10	14	18	46	72	5000	3500	4000
36	28	8	10	14	20	49	75	8000	5000	6000
37	40	8 1/2	12	16	24	58	93	10000	8000	8000
38	45	9	12	16	24	58	93	11000	9000	8500
39	50	10	12	16	24	64	95	12000	10000	9000

LEAD THE BEST.

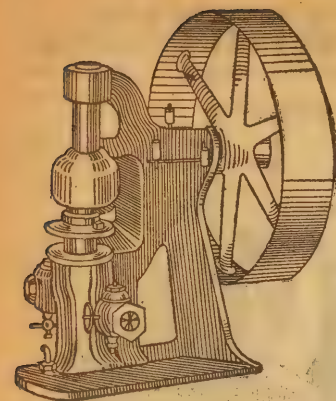
PROVE THE BEST.

STAND THE TEST.



### PUMPS. BELT DRIVEN.

These pumps occupy very little space, are easy to set up and keep in order. The plungers are guided at both ends, and the power applied between bearers. The pin in the crank has a roller working on it within the slot, thus giving an easy and smooth motion. All the wear comes on the pin, so that repairs are very light. The pin and bearing are all very large so as to reduce the wear to the least amount possible. The pumps are furnished with heavy check valves, large valve openings and are very durable. We always send the valves with close nipples to attach the valves to pump barrel. Where the lift from water to pump is ten feet or more, it is best to use a foot valve on the end of suction pipe, where it can be used. Size and capacity of pumps:



No.	Piston inch	Stroke inch	Pipes inch	Pulley	Power of Boiler	Weight lbs.	Gallons per Hour
No. 8-A-85...	1	2	12x2	3	35	18	
No. 8-A-86...	1 1/2	2 1/2	14x2	5	45	30	
No. 8-A-87...	1 1/2	3	16x3	10	65	60	
No. 8-A-88...	1 1/2	3	16x3	15	75	90	
No. 8-A-89...	2	3	18x4	30	130	180	
No. 8-A-90...	2 1/2	3	18x4	45	170	270	
No. 8-A-91...	2	6	22x4	60	200	360	
No. 8-A-92...	2 1/2	6	14x4	80	300	400	

### ROCK DRILLS.

No. 8-A-93. One pair of standard make of steam or air rock drills, which have been put in perfect condition in every way, and are just about as good as new machines.

- No. 8-A-94. One 1 1/2-inch Bullock Monarch Drill, fitted for air or steam.  
 No. 8-A-95. Four 2-inch Bullock Monarch Drills, fitted for air or steam.  
 No. 8-A-96. Two 2 1/2-inch Bullock Monarch Drills, fitted for air or steam.  
 No. 8-A-97. Four 3 1/2-inch Bullock Monarch Drills, fitted for air or steam.  
 No. 8-A-98. One U-A Sullivan Drill, for air.  
 No. 8-A-99. Two U-C Sullivan Drills, for steam.  
 No. 8-A-100. Three U-E Sullivan Drills, for steam.  
 No. 8-A-101. One U-E No. 2 Drill, for steam.  
 No. 8-A-102. Seven 2 1/2-inch Rand Little Giant Drills.  
 No. 8-A-103. Three 3-inch Rand Little Giant Drills.  
 No. 8-A-104. Two 3 1/2-inch Rand Little Giant Drills.  
 No. 8-A-105. One 2 1/2-inch Ingersoll Drill, for steam.  
 No. 8-A-106. Three 3 1/2-inch Ingersoll Drills, for steam.

### FEED WATER HEATERS.

This is one branch of our business to which we pay the most particular attention. We are constantly dismantling large Manufacturing and Industrial Plants which puts us in possession of Feed Water Heaters of every description, both open and closed. At the present time we have on hand the following heaters, which have been carefully gone over and are about ready for shipment.

- No. 8-A-63. Two 2000 H. P. Baragwanath Heaters.  
 54 inch diameter.  
 20 feet high.  
 Brass Tubes.  
 18 inch exhaust inlet.  
 18 inch exhaust outlet.  
 5 inch water supply.
- No. 8-A-64. One 1500 H. P. Berryman Heater.  
 54 inch diameter.  
 18 feet high.  
 Brass Tubes.  
 14 inch exhaust inlet.  
 14 inch exhaust outlet.  
 3 inch water supply.
- No. 8-A-65. One 1000 H. P. Baragwanath Heater.  
 38 inch diameter.  
 12 feet high.  
 Iron Tubes.  
 14 inch exhaust inlet.  
 14 inch exhaust outlet.  
 3 inch water supply.
- No. 8-A-66. One 500 H. P. Stillwell Bierce Class "B" Open Type Feed Water Heater.  
 60 inch diameter.  
 12 feet high.  
 15 inch exhaust inlet.  
 4 inch water supply.
- No. 8-A-67. One 500 H. P. Excelsior Feed Water Heater and Purifier.  
 45 inch diameter.  
 8 feet long.  
 16 inch exhaust inlet.  
 6 inch water supply.  
 Complete with oil separator, float valve and the usual trimmings.
- No. 8-A-68. One 250 H. P. Brownell Open Type Heater.  
 36 inch diameter.  
 8 feet high.  
 10 inch exhaust inlet.  
 8 inch water supply.

- No. 8-A-69. One 175 H. P. Reynolds Pressure Feed Water Heater.  
 24 inch diameter.  
 10 feet high.  
 Iron Tubes.  
 10 inch exhaust opening.  
 2 1/2 inch water supply.
- No. 8-A-70. One 150 H. P. Baragwanath Heater.  
 30 inch diameter.  
 18 feet high.  
 8 inch exhaust opening.  
 2 1/2 inch feed water opening.  
 Iron Tubes.
- No. 8-A-71. One 150 H. P. Reynolds Heater.  
 30 inch diameter.  
 8 feet high.  
 8 inch exhaust opening.  
 1 1/2 inch feed water opening.
- No. 8-A-72. One 125 H. P. Baragwanath Heater.  
 36 inch diameter.  
 6 feet high.  
 Iron Tubes.  
 7 inch exhaust opening.  
 2 1/2 inch feed water opening.
- No. 8-A-73. One 125 H. P. Reynolds Heater.  
 24 inch diameter.  
 7 feet high.  
 8 inch exhaust diameter.  
 1 1/2 inch feed water opening.
- No. 8-A-74. One 100 H. P. Berryman Heater.  
 20 inch diameter.  
 8 feet high.  
 Brass Tubes.  
 6 inch exhaust opening.  
 1 1/2 inch feed water opening.
- No. 8-A-75. One 100 H. P. Brownell Open Type Heater.  
 36 inch diameter.  
 6 feet high.  
 6 inch exhaust opening.  
 3 inch feed water opening.
- No. 8-A-76. One 85 H. P. Baragwanath Horizontal Heater and Purifier.  
 24 inches wide.  
 7 feet long.  
 4 feet high.  
 Brass Tubes.  
 6 inch exhaust opening.  
 2 inch feed water opening.

- No. 8-A-77. One 85 H. P. Baragwanath Heater.  
 20 inch diameter.  
 5 feet 6 inches high.  
 6 inch exhaust opening.  
 1 1/2 inch feed water opening.
- No. 8-A-78. One 80 H. P. Berryman Heater.  
 20 inch diameter.  
 7 feet high.  
 5 inch exhaust inlet and outlet.  
 2 inch feed water connection.  
 Brass Tubes.
- No. 8-A-79. One 80 H. P. Berryman Heater.  
 20 inch diameter.  
 7 feet high.  
 5 inch exhaust inlet and outlet.  
 2 inch feed water connection.  
 Brass Tubes.
- No. 8-A-80. One 75 H. P. Baragwanath Heater.  
 18 inch diameter.  
 6 feet high.  
 4 inch exhaust opening.  
 1 1/2 inch feed water connection.

- No. 8-A-81. One 65 H. P. Baragwanath Heater.  
 20 inch diameter.  
 5 feet high.  
 4 inch exhaust opening.  
 1 1/2 inch feed water opening.  
 Brass Tubes.
- No. 8-A-82. One 65 H. P. Baragwanath Heater.  
 20 inch diameter.  
 8 feet high.  
 4 inch exhaust opening.  
 1 1/2 inch feed water opening.

- No. 8-A-83. One High Pressure Steam Separator.  
 48 inch diameter.  
 20 feet long.  
 Triple Riveted, lap joint.  
 7-16 inch shell.  
 24 inch outlet.  
 14 inch outlet.

- No. 8-A-84. One Stillwell Bierce Open Type Live Steam Heater.  
 36 inch diameter.  
 14 feet high.  
 3 1/2 inch steam inlet and outlet.  
 3 1/2 inch feed water pipe.

## BULLOCK CHAMPION PROSPECTING CORE DRILL

One (1) Bullock Champion Diamond Prospecting Core Drill, double cylinder type, complete with hoist drum, swivel head, necessary gauges and the following equipment:

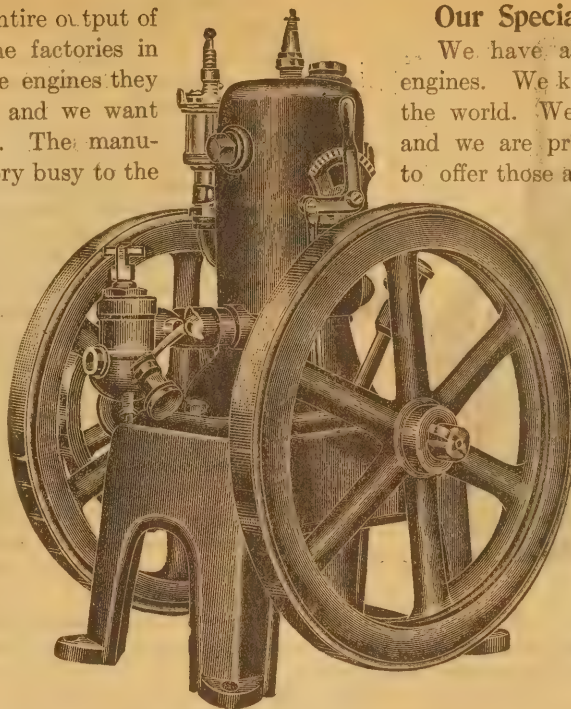
### No. 8-A-107.

- Two blank bits ready to set.  
 205 feet of drill rods with couplings (20-10 feet, 1-5 feet).  
 One 20-inch core barrel.  
 One 10-foot plain core barrel.  
 One core shell and two core lifters.  
 Twenty feet 4-ply water hose with connection for drill and pump.  
 One wire rope (wound on hoisting drum) with hook and 75 feet of 1/4-inch rope.  
 One safety clamp.  
 One sheave for hoisting rods, with strap and hook.  
 One lifting bail with clevis.  
 One ball and bolt for sheave.  
 One lifting swivel or hoisting plug, with coupling.  
 One water swivel with coupling and elbow.  
 One tool chest with lock and key.  
 One pound No. 18 copper wire.  
 One machinists' hammer.  
 One complete set of diamond setting tools consisting of:  
 One 3 1/2-inch jaw vise, with swiveled base.  
 One breast drill with 5 bits from 1/4 to 1 inch diameter.  
 One set of 12 setting chisels and punches.  
 One light hammer for diamond setting.  
 One pair each 6-inch dividers, inside and outside calipers.  
 One head for holding bits while setting.  
 One 6-inch adjustable level.  
 Two pair pipe tongs, adjustable 1 to 2 inches.  
 Two 12-inch monkey wrenches.  
 One 14-inch pipe wrench.  
 One complete set of solid wrenches for engine, chuck, etc.  
 One hand oiler.  
 One 1-gallon oil can.  
 One engine oil cup with valve.  
 Two recovering taps, rubber and hemp packing and waste, all pipes and fittings necessary to connect drill, pump and boiler.



# "Superior" Gasoline Engines

We have contracted for the entire output of one of the largest gasoline engine factories in the country and must sell all the engines they can build during the year 1910 and we want you to realize what this means. The manufacturer is going to keep his factory busy to the limit of capacity without any selling expense whatever. Therefore he is able to sell the product at a surprisingly low price which merely represents the cost of material and labor. If he sells five-thousand engines the cost of building each engine will be less than if he sells 500. This is why we are able to make such phenomenal prices on strictly high-grade engines. Our factory covers many acres of ground and is thoroughly equipped with the most modern appliances to build the engines from the pig iron to the finished product. It is one of the largest engine factories in the country.



## Our Special Gasoline Engine Offer.

We have absolute faith in our gasoline engines. We know they are the best engines in the world. We are proud of the entire line and we are proud of the prices we are able to offer those at, prices so low that even the dealers have to pay more than you can buy them for. This is not idle boasting, because we are ready to back it up. We are ready to put them side by side with any engine ever made regardless of price. Try it for 30 days at our expense, if not as represented send it back, you are to be the only judge. What more can any one demand. We back our engines with our reputation and we back them with our dollars. We take all the risk, our customers reap the benefit.

No. 8-A-96.	2 H. P.	Bore 3 inches, Stroke 3 inches, Weight 205 pounds.	Price.....	\$36.00
No. 8-A-97.	4 H. P.	Bore 4 inches, Stroke 5 inches, Weight 450 pounds.	Price.....	64.00

## Superior Pumping Engine

The "Old Oaken Bucket" is no more, it was replaced years ago by the pump and wind mill and now the wind mill is fast becoming a thing of the past, and the gasoline engine is taking its place. A wind mill without wind may be a "thing of beauty" but it is very little help to the farmer during the hot sultry summer day when his stock is panting for water and he finds it necessary to spend an hour or two daily to quench their thirst. The gasoline engine however is always ready in any kind of weather, rain or shine, wind or calm.

In putting this engine on the market we have had two distinct points in view; 1st, Simplicity, second, easy starting. For this reason we have made this engine of small bore and stroke. It is very often the case when the men folks are away and the women and children must take care of the stock, and the heavy cumbersome engines are not fit for such use, no matter how reliable they are, it is impossible for a woman or a ten year old boy to swing a large horizontal engine against the compression.

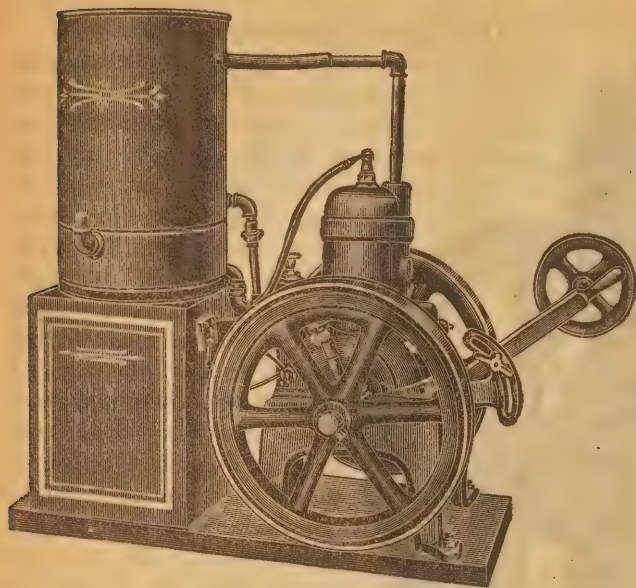
Our SUPERIOR Pumping engine is made on the two cycle principle taking a "shot" at every stroke and not every other stroke as with the heavy four cycle. We have also purposely made it a water cooled engine as it is generally exposed to the most severe kind of cold weather, so cold in fact that at times even the lubricating oil will get cold and stiff and the gasoline will not vaporize properly. Under such conditions, the farmer simply brings along a pail of hot water from the kitchen and pours it into the small hopper or tank and it heats up the entire engine making it easy to start, in the coldest weather.

This engine although small will develop 2 H. P. at 800 R. P. M. and 1½ H. P. at 600 R. P. M. It is equipped with a 4 inch pulley using a 3 inch belt. We also furnish spark coil, spark plug, plain generator valve, advance spark lever and gasoline tank, but at the price above specified we furnish no water tank, most farmers preferring to furnish this rather than pay freights as any keg or even a candy pail will make a good tank. We furnish the piping, lock nuts, etc. So all you have to do is to bore a hole in any wooden tank and attach the fittings.

The 4 H. P. size is the same as the 2 H. P. only larger and twice as powerful. It will do almost any work around the farm and is a very serviceable and compact engine, has a 5 inch pulley using a 4 inch belt.



# Superior Cream Separator Engine



Did you ever stop to consider the time wasted turning the Separator every day? To the average dairyman it possibly means at least thirty minutes work morning and night. This means one hour a day or thirty-six days of ten hours each during the year.

A little engine, such as shown herewith, will save this work. It can be used not only running the Cream Separator, but for washing machine, churn, etc. It will pump water from a well 125 feet in depth. The engine is constructed on the two cycle principle and equipped with jump spark ignition. There is less than 2 per cent variation in the speed. Jump spark means positive ignition under all conditions. It is the only engine for Cream Separator work. The engine starts very easily, all that is necessary is to take hold of the fly wheel and give it a half turn. Any child old enough to milk can readily run the engine. It requires only a pail or two of water, which can be drawn off when there is danger of freezing.

This is the same engine as our pumping engine shown above, only made with finer adjustments and higher priced fixtures, because of the fact that cream separating requires the most steady motion of any machine on the farm. It would not do to have the engine vary in speed even in the slightest degree. While this engine is recommended so strongly for cream separator work, it is especially good for other work, and we can say that the few dollars it costs more is money well invested, and we recommend this engine very highly.

It is furnished with Lunkenheimer Nonpareil Generator valve and has three adjustments for speed so it can be regulated to the very finest point. It is also mounted on base with gasoline tank, water tank, spark coil and wire connections all ready to run by filling the tank with oil. Takes only a couple of pails of water to cool it.

The four horse power is the same only larger. We furnish a speed and pump jack for these engines, illustrated on page 296, and recommend that these should be ordered with this engine. At a slight additional cost we can also furnish this engine with a slip clutch grooved pulley, with belt tightener, so the separator can be started very slowly and the engine stopped at any time when the separator will keep running until momentum is all gone.

Our special gasoline engine catalog describes this equipment completely.

No. 8-A-98. 2 Horse Power, Bore 3 inches, Stroke 3 inches. Price.....**\$45.50**

No. 8-A-99. 4 Horse Power, Bore 4 inches, Stroke 5 inches. Price.....**\$80.00**

## Air Cooled Engine

As the use of gasoline engines increases many purchasers have come to prefer the air cooled engine because the water tank and cooling water is not required, avoiding the possibility of a cracked cylinder and the expense of replacement. No matter how careful one may be, there is always a possibility of forgetting to drain off the water in the cylinder.

The SUPERIOR air cooled engines are provided with a fan which causes a circulation of cooling air around the cylinder, preventing the high temperature which would interfere with the working of the engine. By referring to the illustration it will be noted that the cylinder is cast with ribs, giving a large circulation; and by this method it is kept at a proper working temperature, so that it can be run all day without showing signs of distress.

The governor is operated from the shaft and is positive under all conditions. Lubrication is provided for in the simplest possible manner and is automatic, oil being fed from sight feed lubricators attached to the side of cylinder. The main bearings are lubricated by hard oil grease cups. The splash system lubricates the piston and all moving parts, and while the crank case is not entirely closed it is so designed that no oil can be thrown out. Jump spark ignition is used as on all our engines. Current is furnished by high grade dry cells and spark coil. Engine is provided with over-flow suction feed, and the fuel is drawn into the cylinder by the piston on its downward stroke. Engine is constructed on the four cycle principle, and is furnished complete with wire, batteries, coil, plugs and all necessary electrical connections, gasoline tank, muffler, 6 inch pulley and complete directions.

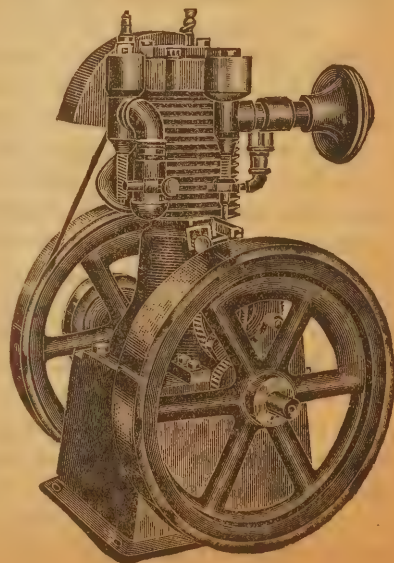
**Specifications No. 8-A-100. Price, \$78.50.**

3 H. P. R. P. M.	Diam. of Fly Wheel.	Face of Wheel.	Capacity of gas tank	Floor Space	Height above base	Wt. of Out- fit complete
450	18 in.	2½ in.	2 gals.	13½x17 in.	24 in.	375 lbs.

**Specifications No. 8-A-101. Price, \$125.00**

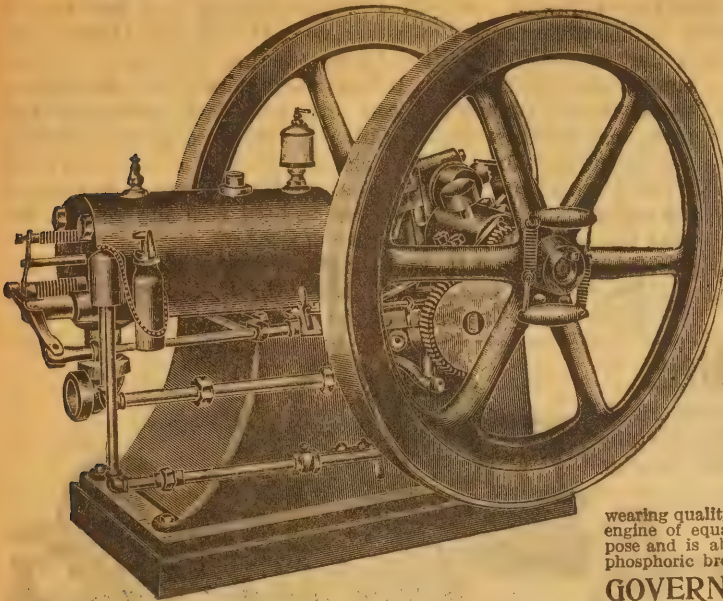
5 H. P. R. P. M.	Diam. of Fly Wheel	Face of Wheel	Capacity of gas tank	Floor space	Height above base	Wt. of Out- fit complete
400	24 in.	2½ in.	5 gals.	20x28 in.	39 in.	600 lbs.

**F. O. B. OUR FACTORY CENTRAL WISCONSIN.**





# SUPERIOR HEAVY DUTY ENGINE



We are willing to have this engine compared with any on the market, no matter what the price. It is the best engine for all around work on the farm and in the factory. It is the most popular engine we handle, powerfully and reliably made for heavy work and continuous service. With proper care it will last a lifetime. The 8 H. P. is large enough for the ordinary work on the farm, also for elevators, factories, etc. The 12 H. P. we recommend for small threshers, silo fodder cutters, etc. There are several features about these engines that convince us that they are the best gasoline engines on the market notwithstanding the claims made by others that they have the best. We ask that the following details be carefully considered:

**THE BASE.** The base is made of one piece of solid iron having the fuel tank in the body, large enough so that a supply of gasoline equal to a day's run is always on hand. This reservoir is thoroughly inspected and tested under pressure and coated with shellac so as to guard against leaks so the gasoline will not escape and be wasted.

**CYLINDER.** The cylinder is made with the water jacket of ample size to insure proper cooling. It is made of the highest grade of cross grained gray iron and is securely fastened to the bed by heavy bolts over-hung from the engine bed so as not to be affected by the expansion and contraction caused by heat and cold. If for any reason it is necessary to replace the cylinder with a new one, it can be done at a very small expense, whereas when the cylinder and bed are cast in one piece a new cylinder would cost as much as a new engine.

**CONNECTING ROD.** Connecting rod is of crucible steel and provided with large bearings at each end. In the bearings we use the very best grade of anti-friction metal insuring against undue wear; and the wear can be taken up very easily. Long bearings giving increased life. You will find our bearings are much larger than on the ordinary engine of equal size. The anti-friction metal used is especially made for this purpose and is absolutely the best material and is better than brass, gun metal, phosphoric bronze or any other metal used for bearings.

**GOVERNOR.** The engine is fitted with a high speed governor by means of which the speed can be adjusted at pleasure and which besides controlling the speed of the engine, the governor can be taken up very easily. Long bearings giving increased life. You will find our bearings are much larger than on the ordinary engine of equal size. The anti-friction metal used is especially made for this purpose and is absolutely the best material and is better than brass, gun metal, phosphoric bronze or any other metal used for bearings.

automatically regulates the consumption of fuel in proportion to the load of the engine. Besides controlling the speed of the engine, the governor can be taken up very easily. Long bearings giving increased life. You will find our bearings are much larger than on the ordinary engine of equal size. The anti-friction metal used is especially made for this purpose and is absolutely the best material and is better than brass, gun metal, phosphoric bronze or any other metal used for bearings.

**IGNITION.** We use the jump spark igniter. It will only be a short time when this mode of igniting will be used for all gasoline engines, and the make and break with its many springs and adjustments will be a thing of the past. It is now used in every automobile engine manufactured, as well as motor boat engines where absolute reliability is required. With the jump spark system a battery of four cells will give ample spark, while with the make and break ten or twelve cells are required.

**IMPORTANT.** The **SUPERIOR** engine is equipped with a spark lever by which the ignition can be advanced or retarded at pleasure giving more power with less consumption of fuel. In starting the engine this lever is turned back so that the charge is not ignited until the crank is well over the center. This relieves the danger of kick backs as the engine gains speed. The sparks can be advanced until the highest power is obtained. **OURS IS THE ONLY ENGINE THAT HAS ADJUSTABLE SPARK LEVERS AND SOLD AT A REASONABLE PRICE.**

**FLY WHEELS.** Our heavy cast iron fly wheels are accurately bored and secured to the shaft by steel keys and turned on face and edge of the rim. Our fly wheels are very heavy, as it is the momentum of the fly wheel that keeps up the motion of the engine.

**EXHAUST.** This is an important feature of the **SUPERIOR** engine. They are equipped with exhaust pipe at the bottom of the cylinder. The purpose of this is to cleanse the cylinder at every stroke. There being always more or less deposit of scale and carbon from the burnt gasoline; this being heavier than the gas stays at the bottom of the cylinder, consequently engines having exhaust pipe at the top or side will "Churn" these particles backward and forward in the engine, and in a very short time would crease and wear out the lower part of the cylinder and piston ring. With the exhaust pipe at the bottom as is shown in cut, anything that happens to come into the cylinder will be forced out at the first shot.

## TESTING BEFORE LEAVING THE

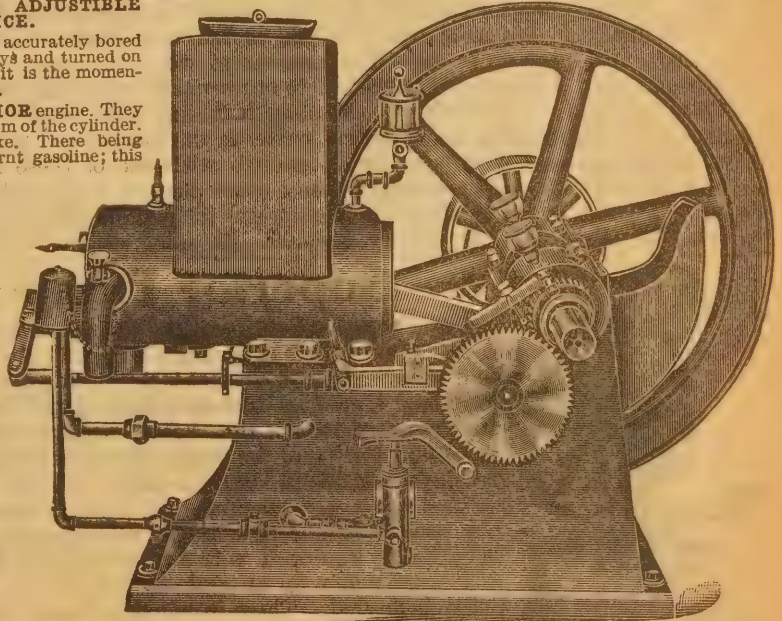
**FACTORY.** Every part of our engine is carefully inspected and after the engine has been assembled, it is run for several days and made to give off the power at which it is rated. It is tested under a heavier load than it is supposed to carry and no engine is allowed to pass inspection without answering every requirement. After the engine is thoroughly tested, they are painted, finished and crated ready for shipment.

Attached to each engine is a small tag stating who assembled it; who tested it; and by whom it was inspected. This is on the engine when you receive it.

**EQUIPMENT.** With each engine we furnish batteries, wire, switch, coil, muffler, oil can, sample grease, wrench, necessary connection for connecting water tank but not water tank. Attach to each engine is a gasoline pump, and we furnish with each outfit all necessary grease cups, lubricators, etc.

**FINISH.** Our engines are all carefully machined and smoothed and then filled with two coats of iron filler, rubbed down and sand papered and completed with a finishing coat. Engines are usually painted a dark maroon.

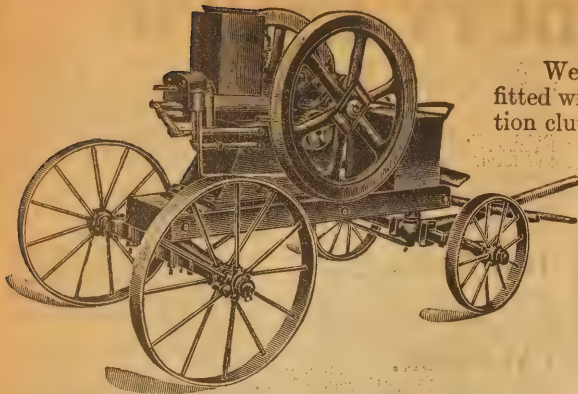
**FROST PROOF ENGINE.** The **SUPERIOR** Hopper cooled engine is the best on the market. This is a very popular engine and cannot be recommended to lightly. The advantages of this system of cooling the cylinder is that it requires only two or three pails full of water to keep the cylinder at the proper temperature. This is very desirable in cold weather as the water can be readily drained off as soon as you are through using the engine. With the tank cooled engine it is necessary to drain and fill entire tank which requires a great deal of work and causes delay. On a very cold morning it is best to start the engine by using the priming cup. The first charge of gasoline should be turned in through the release cock and after the engine is started and the cylinder has had an opportunity to get warm, then put in the water.



## SPECIFICATIONS.

	H. P.	Shipping Wt.	Bore of Cyl.	Stroke of Piston.	Diam. Fly Wheel.	Wt. of Fly Wheel.	Price.	
No. 8-A-101.	8	1400	6	8	36	300	\$200.00	F. O. B. our factory, central Wisconsin.
No. 8-A-102.	12	2000	8	10	40	350	282.00	
	8 H. P.	Height of Engine	39 inches.	Floor Space Occupied by Engine	16x34 inches.	Diameter and Face of Pulley	12x8 inches.	
	12 H. P.		44		32x60		18x8	





## Mounted Portable Engine.

We illustrate herewith our 8 H. P. engine mounted on steel trucks, fitted with a 12 inch pulley with 7 inch face, or can be provided with a friction clutch pulley at a slight additional cost. Is furnished complete with tongue and whiffletrees. It is an ideal power for well drilling, wood sawing, pumping water, cutting ensilage, filling silos and farm and ranch work in general. The expense of operating a portable gasoline power is about one-third or one-fourth of what it would cost to run a steam outfit. There is no expense for engineer or assistant, or team to haul coal and water. We offer this outfit at a special price of \$268.00.

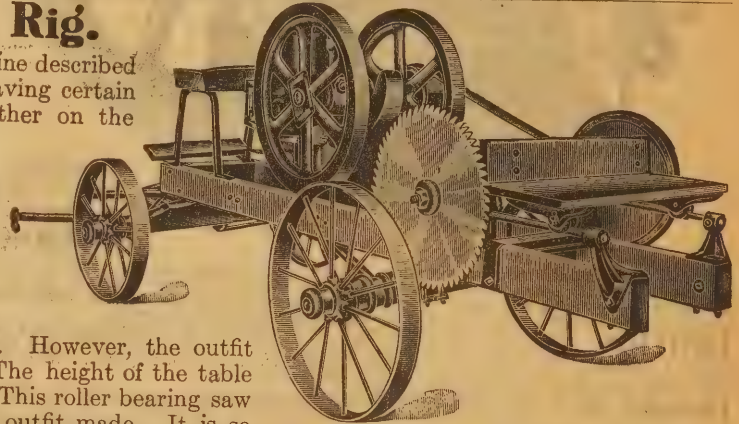
No. 8-A-103. 8 H. P., \$268.00. Shipping weight, 2000 lbs.

No. 8-A-103½. 12 H. P., \$344.00. " " 2400 lbs.

F. O. B. our factory, Central Wisconsin.

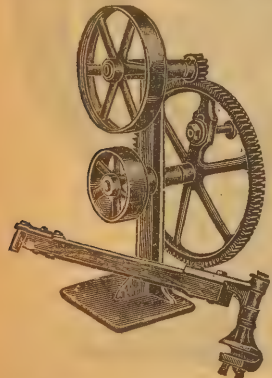
## 8 H. P. Portable Saw Rig.

The engine used on the saw rig is the same engine described above. This is an exceptionally good saw rig, having certain features that are a great improvement over any other on the market. The wheels are all of steel, the axles are of hardwood, also main beams. It is built of the very best material throughout. We wish to direct special attention to the carriage which is operated on cold rolled steel track. This is a very practical arrangement, being so arranged that the carriage cannot jump the track or pull away towards the front or back. It cost considerable



more to build than the ordinary swing saw frame. However, the outfit can be provided with tilting table if so desired. The height of the table is correct for convenient handling of the wood. This roller bearing saw table is the easiest operated and most substantial outfit made. It is so arranged that the operator can hold the wood with both hands and push the table with his body. Size of front truck wheels 30 inches in diameter, rear truck 36 inches, tire 4 inches, timbers 3½x7 inches and 12 feet long. This is a very economical saw rig to use. The amount of wood that can be sawed will vary a great deal, depending upon the size and kind. This outfit is subject to our usual liberal terms and guarantee. A 24 inch saw is supplied unless otherwise specified. Everything is complete, including saw mandrel, balance wheel, pulley and belt. It is without question the most complete and practical outfit on the market and you can start it going within thirty minutes after arrival at destination. You could make enough with one of these rigs to pay for it in one season, and the engine can be taken off the trucks and used for any other purpose you would need it for, by the removal of a few bolts. We have a great many of these engines in use throughout the country and guarantee them to give satisfaction. No. 8-A-104. Price F. O. B. factory, \$294.00. Shipping weight, 2200 lbs.

## Superior Pump and Speed Jack.



The superior Pump and Speed Jack is the best and most useful jack you can buy. Consider the advantage of having a compact, strong pumping jack, which at the same time can be used as a speed jack, that is it is back geared so if used between an engine running at high speed and a machine such as a fanning mill, which runs at slow speed, the number revolutions required for the slow speed machine can be had by belting to the small pulley on the jack and a pulley of the proper size to get the required speed attached to the fanning mill, thus avoiding the use of a line shaft. It can be used for pumping and at the same time can be used to run any machine that is built to turn by hand, coupling up with an ordinary round belt, such as is used on a sewing machine or a ¾ inch rope, when a round belt cannot be had. Is ordinarily equipped with a grooved pulley for round belt, but when so ordered is furnished with a flat pulley for an ordinary 2 inch belt. When ordering specify whether flat or grooved pulley is desired. There is no extra charge for either kind. The pump can be attached to a pump and is especially adapted for use with our cream separator or pumping engine. Pitman is furnished of seasoned hardwood, which can be attached direct to the pump. The jack is built in two sizes for wells from 25 to 100 feet in depth and the other for very deep wells. There is a slot provided in the large gear so it can be adjusted to fit the stroke of different pumps. No counter shaft is necessary to reduce the speed, as jack can be attached with pitman direct to engine. Provision is made so that all bearings can be properly oiled and the jack will last as long as the pump. We guarantee it to be durable and well made. The stroke is adjustable from 6 to 10 inches and is back geared from 10 to 1. It will run the pump up to 25 double strokes per minute, this being about the proper speed for the ordinary wind mill pump. It weighs, complete crated for shipment, 65 lbs. Price, \$4.75.

Deep well pump jack, crated for shipment, 100 lbs. Price, \$6.50, F. O. B. our factory, Central Wisconsin.

No. 8-A-105. Shallow well, \$4.75. No. 8-A-106. Deep well, \$6.50.



# Superior Marine Engines

There is no more economical or enjoyable way of spending the summer holidays than with a motorboat equipped with an up-to-date reliable engine. Motorboating has become the most popular means of recreation. They are to be found everywhere along the coast and on our inland lakes and rivers, and in places where no other kind of a craft would be able to float. Superior Marine Engines do justice to the best hulls made and will give the owner universal satisfaction because there is no better two cycle gasoline Marine Engine built. For simplicity in operation the Superior has no equal. It has the fewest number of working parts and these parts are so simple in their construction that they rarely get out of order. The engine is always under perfect control with the least amount of effort. The engine once started will keep going.

The power developed by Superior Marine Engines has no equal for the bore and stroke. Our special method of construction reduces the compression chamber to the minimum and our properly located exhaust and intake ports resulting in an engine second to none in power. The speed admits of great variation and is under perfect control of the operator. It is possible to obtain a speed varying from 200 R.P.M. to 1,000. This all depends on the type of boat in which the engine is installed and the kind of propeller used.

**Thirty Days Free Trial Offer** Send us your order for a Superior Marine Engine and we will ship it with the understanding that you can test it in actual service for thirty days. Any time within the thirty days if you find it does not give you perfect satisfaction, or is lacking in some of the qualities we claim for it, or if the H. P. is not exactly as represented and if it is not in every way equal to motors that are sold at twice the price, you can return the engine to us and we will refund you the price and any freight charges you have paid.

**Guarantee** We guarantee our Superior Marine Engine to develop rated H. P., to run satisfactory and steadily when properly installed and given proper care and attention, and we agree to replace free of charge any part found broken by reason of defect workmanship or material within one year from date of shipment. We send out printed instructions with every engine and they are so simple and easily understood that anyone can install and operate and care for the engine with but very little practice. Every engine sent out is thoroughly tested and inspected by experts and no engine leaves the factory before it has been run on its own power and every adjustment is properly made.

**Superior Marine Engines** The construction of Superior Marine Engines is the most up-to-date and simple as possible. The cylinder is bored and reamed and water jacketed both sides and head. Circulating pipe and pump are of simple size to insure proper cooling. Water is forced through the jacket by a plunger pump operated by an eccentric on the crank shaft. Piston is ground and fitted with three compression rings and three oil grooves. The rings are turned upon an eccentric gig, giving a perfect spring. After this they are ground and fitted to piston and cylinder by hand. This method of construction insures long life and full power to the engine. Connecting rod is made of crucible steel after an improved pattern of our own design. It is put in place in such a manner that it cannot possibly work loose, no matter how severe the strain may be.

The crank shaft is made with the counter balance weights made as a part of the crank itself, overcoming the danger of the weights working loose and wrecking the engine. These balance weights are indispensable, as they serve a two-fold purpose, first by reducing vibration, and second they act as filling in the crank chamber, reducing the size of the compression space and forcing a larger charge into the cylinder head, giving more power. This is a feature that belongs exclusively to Superior engines.

The Commutator is placed conveniently in front of the cylinder where it can be easily reached and consists of a ratchet and lever made of brass, which control a fibre eccentric fitted on to the main shaft directly behind the fly wheel. It is convenient, positive and durable, and admits of varying the speed of engine, slow or fast as desired.

**Gas Production** We equip our engines with a generator which has both air and fuel control, by means of which, the speed of the engine may be regulated at will. The type of generator is far superior to anything heretofore offered in this line and for the Superior type of engine, viz.: two port, two cycle, there is nothing better made for generating gas from gasoline. We recommend it without reservation. We can, however, furnish any make of carburetor specified at a slight additional charge, and purchasers having any favorite make carburetor, can have their engines fitted as desired at the factory.

**Ignition** We use the jump spark system, avoiding the many complicated parts and delicate springs used in the old style made and break. The spark-ignition lever on side of cylinder retards or advances the spark at the will of the operator. By means of this the speed of the engine is under perfect control. The engine can also be reversed and will run in either direction desired by breaking the circuit and making a new connection.

**Finish** Superior Marine engines are all carefully machined and smoothed, and filled with two coats of iron filler, and rubbed down and sandpapered between each coat, and finally completed with a finishing coat and varnished with a special gas engine varnish that will stand a high degree of heat. We also can furnish Superior engines in any of the following colors at the same price: Maroon, Brewster green or in either polished black or dead black.

**Our Special Features, viz.: Positive Compression Bearings** The most important point in the construction of Superior Marine engines is the gas tight bearings, and we wish to lay especial emphasis on our method of preventing loss of compression which is so common to gasoline motors when the bearings become worn. It is impossible to get power from a two cycle gasoline engine or to start it without a lot of trouble if it loses compression. It makes no difference how well your crank chamber is made or of what material your bearings are made, wear is sure to show up sooner or later. On the Superior engines, however, a small groove is cast into the main journal into which is fitted a loose steel spring collar. A ring of graphite cylinder packing is placed under the collar which come into direct contact with the crank shaft. Wear is taken up by a quarter turn of a small set screw, one is placed on the upper, one on the lower journal. These set screws need attention only once or twice during the season. By this simple device which is fully covered by patents, the bearings are rendered absolutely gas tight, insuring a prompt start, no matter how long you have run the engine or how much your bearings are worn. They do not have to be replaced and you will have full compression without regard to the condition of the bearings. This is a guarantee of full power and positive lubrication of all the working parts. All Superior Marine engines are equipped with these bearings and it is the greatest advance in gasoline engine construction in a decade.

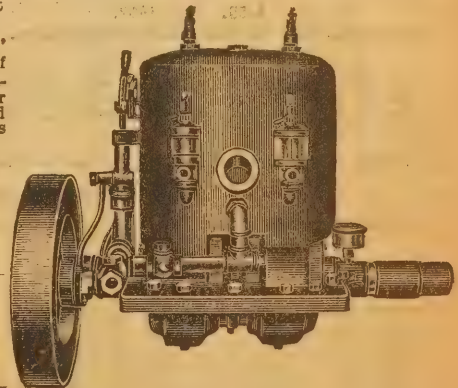
**Equipment** With each engine we furnish all necessary grease cups, lubricators, gasoline valves, brass stuffing box, spark coil, six dry batteries, spark plug, propeller, six feet of shafting, primary and secondary wire, muffler, one-half gallon vacuum motor oil, six battery connectors, starting crank, shaft coupling and switch. The salt water equipment consists of parts similar to that of fresh water with the exception that the shaft, valves and all water circulating pipe and pump plunger are made of bronze. There is a slight additional charge for any one of the engines fitted for salt water parts as listed below.

## SPECIFICATIONS

### MARINE ENGINES

H. P.	Size of Propeller Shaft, In.	Diameter of Propeller, In.	Pitch of Propeller Blades, In.	Length of Boat Propelled	Miles Per Hour	Shipping Weight, Lbs.
2	1	10	15	18 feet	8	190
4	1	14	19.6	20 "	10	335
6	1	16	19.6	24 "	9	375
10	1	17	22.4	30 "	9	480

No.	H. P.	Cyl.	Bore Inches	Stroke Inches	R. P. M.	Size of Base, In.	Height Above Base, In.	Size of Crank Shaft, In.	Price with Fresh Water Fittings	Price with Salt Water Fittings
No. 8-A-107.	2	1	3	3	600	8x9	11½	1	\$45.50	\$48.50
No. 8-A-108.	4	1	4	4½	700	8x13	14½	1½	65.00	72.00
No. 8-A-109.	6	1	4	5	600	8x13	18½	1½	84.00	90.00
No. 8-A-110.	10	2	4	4½	600	12x15	16	1½	130.00	138.00





# IRRIGATING EQUIPMENT

A word or two in regard to this most modern method of irrigating small farms. We have given this proposition very careful consideration and give herewith information which we have collected with reference to the proper size pump and power required. Of course the conditions differ with different localities, as to the quantity of rainfall and the kind of crops raised. From the information we have been able to obtain from practical farmers and irrigators throughout the West who have made a success in this line, we believe the following table is very accurate:

A 1½ pump will irrigate 10 acres of land running 40 days of 10 hours each, if lifting the water about 20 feet, and will require a 2 horse power engine, and as the ordinary Standard type of gasoline engine is used, the cost of operation will approximate more than 1 cent per horse power per hour and this basis will be found correct on all of the large sizes of gasoline engines as well.

Of course in larger units, where more than 40 horse power is required, we would recommend a steam equipment and we are prepared to furnish pumps up to 12 inches with suitable engine and portable fire box boiler.

The No. 2 pump will supply	20 acres of land with a	3 horse power engine.
The No. 3 pump will supply	40 acres of land with a	6 horse power engine.
The No. 4 pump will supply	80 acres of land with a	10 horse power engine.
The No. 6 pump will supply	120 acres of land with a	20 horse power engine.
The No. 8 pump will supply	320 acres of land with a	40 horse power engine.
The No. 10 pump will supply	640 acres of land with a	55 horse power engine.
The No. 12 pump will supply	upwards of 1500 acres of land and will require about a	70 horse power.

We give herewith a full and complete description of the different size pumps with prices. These pumps are all strictly brand new, warranted and guaranteed by the makers as well as ourselves and the prices are extremely low.

In regard to gasoline engines up to 10 horse power, we would recommend our SUCCESS type which is fully described on another page of this catalog. We also have other gasoline engines, both new and second-hand up to 40 horse power.

## MODERN CENTRIFUGAL PUMPS

For

Irrigation, Drainage, Sewerage, Circulation, Etc.

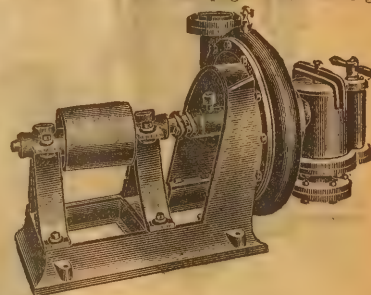
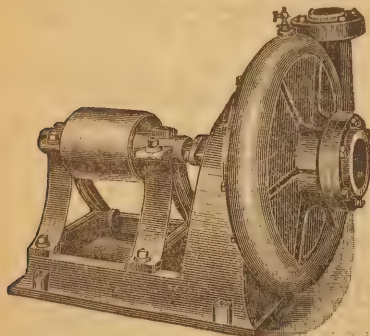


Fig. 1902 is our Standard Side Suction Centrifugal Pump. This pump is designed and constructed throughout on very liberal lines. The case or shell is of the solid type, very heavy, and the runner of large diameter, adapting the pump for slow speed. The inside of the case is machine finished and the runner machined and accurately fitted to it, and our construction gives a closer running fit and greater efficiency than can be obtained in the old style split. The shaft is large and the bearings are generously proportioned, an ample stuffing box and gland being provided. The discharge can be readily adjusted at any angle. All parts are accurately interchangeable and any part can be readily duplicated.

Fig. 1902—Sizes, Capacities, Prices, Etc.

No. Pump	Cap. Gallons	Size of Pipe		Pulley	
		Discharge	Suction	Diameter	Face
1	30	1 in.	1½ in.	4 in.	3 in.
1½	70	1½ in.	2 in.	5 in.	5 in.
2	90	2 in.	2½ in.	6 in.	5 in.
2½	120	2½ in.	3 in.	6 in.	6 in.
3	185	3 in.	3½ in.	7 in.	6 in.
3½	265	3½ in.	4 in.	8 in.	8 in.
4	360	4 in.	5 in.	10 in.	8 in.
4½	470	5 in.	6 in.	10 in.	10 in.
5	735	6 in.	8 in.	14 in.	12 in.
6	1060	8 in.	10 in.	20 in.	12 in.
8	2000	10 in.	12 in.	24 in.	12 in.
10	3000	12 in.	15 in.	30 in.	14 in.
12	4300	15 in.	18 in.	Special	Special
15	7000	18 in.	20 in.		
18	10000				



No. 8-A-85. Fig. 1902.

Horizontal Side Suction Centrifugal Pump.

Brass fitted pumps have runner and shaft of brass.

These pumps can be fitted with tight and loose pulleys, if desired, at an extra charge.

On sizes above 10-inch it is advisable to use an ejector and either a foot valve or a flap valve as described on another page. No foot valve or flap valve is necessary when the hand primer is used.

In this illustration the method of attaching the shell to the hood on our Fig. 1902 pump is clearly shown.

Fig. 1903 is similar to our Fig. 1902, with the exception that a hand suction primer is added.

We can furnish this pump with a hand primer if desired, as it is occasionally necessary to prime these pumps by hand.

This may be done by opening the air cock at the top of the shell and then using the hand pump on the primer until the water flows from the air cock, when the pump can be started.

We can furnish these pumps both new and second-hand Write for Bargain Prices.

### Revolutions and Horse-Power Required to Elevate Water to Different Heights

No. Pump	Cap. Gals.	H. P. per Ft. Elev.	5 Feet	10 Feet	15 Feet	20 Feet	25 Feet	30 Feet	35 Feet	40 Feet	50 Feet	60 Feet
1	30	.025	963	1176	1357	1515	1656	1790	1911	2028		
1½	70	.038	642	784	904	1010	1104	1193	1274	1352	1493	1622
2	90	.075	473	570	651	724	790	850	906	959	1058	1147
2½	120	.10	364	443	511	570	623	672	718	762	840	913
3	185	.15	286	359	419	475	517	559	599	636	704	766
3½	265	.22	236	295	345	390	421	453	484	513	566	615
4	360	.26	193	242	283	320	352	382	411	439	481	517
4½	470	.30	160	200	234	268	297	325	352	378	411	444
5	735	.45	113	141	165	188	210	230	249	267	290	311
6	1060	.59	84	105	125	142	158	173	187	199	219	236
8	2000	1.00	42	52	61	70	78	86	93	100	110	118
10	3000	1.52	28	35	41	47	52	57	61	65	71	76
12	4300	2.00	21	26	31	35	39	43	46	49	54	58



# VERTICAL CENTRIFUGAL PUMPS

Fig. 1900

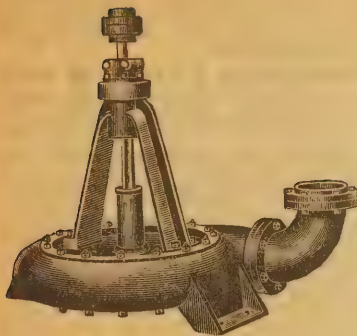


Fig. 1900

Vertical Submerged Centrifugal Pump Furnished with Feet or Timber Pieces.

Fig. 1900, shown on this page, is our Vertical Submerged Centrifugal Pump arranged with feet.

This pump is intended to be entirely submerged in the liquid to be pumped and needs no priming. The weight of shaft is entirely supported by the yoke, which has a bearing with adjustment at the top, making a very durable pump, there being no step bearing inside the shell to cut and wear. By simply removing the nuts at the top of the shell, all of the running parts, including the runner, can be lifted out for inspection.

Fig. 1901

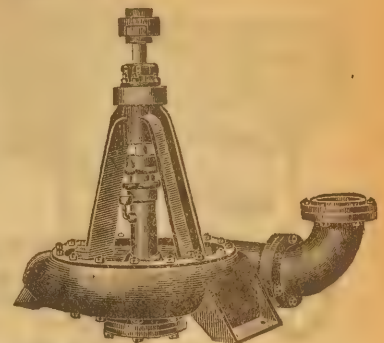


Fig. 1901

Vertical Suction Centrifugal Pump furnished with Feet or Timber Pieces.

Fig. 1901, as represented on this page, is our Vertical Suction Centrifugal Pump arranged with feet. This pump is extensively used for irrigating by attaching the suction flange directly to the Well Casing. It may be placed with safety in pits where there is danger of water accumulating, as it will run submerged. The yoke with adjustable bearing at the top supports the entire weight of the shaft, and all of the running parts can be removed for inspection from top of pump without disturbing the suction or discharge pipe. The gland is provided with a water seal.

No. 8-A-87. Fig. 1900--Sizes, Capacities, Prices, Etc.

No. Pump	Cap. Gals.	Size Disch. Pipe	Pulley		Coupling Bored for
			Diam.	Face	
1	30	1 in.	4 in.	3 in.	3 in. shaft
1 1/2	70	1 1/2 in.	5 in.	5 in.	1 in.
2	120	2 in.	6 in.	6 in.	1 1/2 in.
2 1/2	185	2 1/2 in.	7 in.	6 in.	1 3/4 in.
3	265	3 in.	8 in.	8 in.	1 7/8 in.
3 1/2	360	3 1/2 in.	10 in.	8 in.	1 7/8 in.
4	470	4 in.	10 in.	10 in.	2 in.
5	735	5 in.	14 in.	12 in.	2 1/2 in.
6	1060	6 in.	20 in.	12 in.	2 1/2 in.
8	2000	8 in.	24 in.	12 in.	2 1/2 in.
10	3000	10 in.	30 in.	14 in.	2 1/2 in.
12	4300	12 in.	Special	Special	Special
15	7000	15 in.	Special	Special	Special
18	10000	18 in.	Special	Special	Special

Price covers pump complete, as shown in illustration, together with pulley of size listed above.

No. 8-A-88. Fig. 1901--Sizes, Capacities, Prices, Etc.

No. Pump	Cap. Gals.	Size of pipe		Pulley		Coupling Bored for
		Disch.	Suct.	Diameter	Face	
1	30	1 in.	1 1/2 in.	4 in.	3 in.	3 in. shaft
1 1/2	70	1 1/2 in.	2 in.	5 in.	5 in.	1 in.
2	120	2 in.	3 in.	6 in.	6 in.	1 1/2 in.
2 1/2	185	2 1/2 in.	4 in.	7 in.	6 in.	1 3/4 in.
3	265	3 in.	4 in.	8 in.	8 in.	1 7/8 in.
3 1/2	360	3 1/2 in.	5 in.	10 in.	8 in.	1 7/8 in.
4	470	4 in.	5 in.	10 in.	10 in.	2 in.
5	735	5 in.	6 in.	14 in.	12 in.	2 1/2 in.
6	1060	6 in.	6 in.	20 in.	12 in.	2 1/2 in.
8	2000	8 in.	10 in.	24 in.	12 in.	2 1/2 in.
10	3000	10 in.	12 in.	30 in.	14 in.	2 1/2 in.
12	4300	12 in.	15 in.	Special	Special	Special
15	7000	15 in.	18 in.	Special	Special	Special
18	10000	18 in.	20 in.	Special	Special	Special

Price covers pump complete, as shown in illustration, together with pulley of size listed above.

## Friction of Water in Pipes

Friction loss in pounds pressure per square inch for each 100 feet of length in different size clean iron pipe, discharging given quantities of water per minute.

Gallons per Minute	Size of Pipe--Inside Diameter									
	1 in.	1 1/2 in.	2 in.	2 1/2 in.	3 in.	4 in.	5 in.	6 in.	8 in.	10 in.
5	0.84	0.12	0.03							
10	3.16	0.47	0.12	0.03						
15	6.98	0.97	0.27	0.06						
20	12.3	1.66	0.42	0.13	0.03					
25	19.0	2.62	0.67	0.21	0.10					
30	27.5	3.75	0.91	0.30	0.12	0.03				
35	37.0	5.05	1.26	0.42	0.14	0.05				
40	48.0	6.52	1.60	0.51	0.17	0.06				
45		8.15	2.01	0.62	0.27	0.07				
50		10.0	2.44	0.81	0.35	0.09	0.03			
75		22.4	5.32	1.80	0.74	0.21	0.06	0.03		
100		39.0	9.46	3.20	1.31	0.33	0.12	0.05		
125			14.9	4.89	1.99	0.51	0.17	0.07		
150			21.2	7.0	2.85	0.89	0.25	0.10	0.02	
175			28.1	9.46	3.85	0.95	0.34	0.14	0.03	
200			37.5	12.47	5.02	1.22	0.42	0.17	0.05	
250				19.66	7.76	1.89	0.65	0.26	0.07	0.01
300				28.06	11.02	2.66	0.93	0.37	0.09	0.01

Gallons	3 in.	4 in.	5 in.	6 in.	8 in.	10 in.	12 in.	14 in.	16 in.	18 in.	18 in.
350	15.2	3.65	1.28	0.50	0.12	0.05	0.02				
400	19.5	4.73	1.68	0.65	0.16	0.06	0.02				
450	25.0	6.01	2.10	0.81	0.20	0.07	0.03				
500	30.8	7.43	2.70	0.96	0.25	0.09	0.04	0.017	0.009	0.005	
600	10.6	3.45	1.72	0.348	0.13	0.05	0.024	0.013	0.007		
750	16.5	5.40	2.21	0.53	0.18	0.08	0.038	0.019	0.011		
1000			3.88	0.94	0.32	0.13	0.062	0.036	0.018		
1250			6.07	1.46	0.49	0.20	0.095	0.050	0.028		
1500			8.71	2.09	0.70	0.29	0.135	0.071	0.040		
1750			11.83	2.84	0.95	0.38	0.180	0.095	0.053		
2000			15.43	3.69	1.23	0.49	0.234	0.123	0.069		
2500				5.75	1.90	0.77	0.362	0.188	0.107		
3000					2.73	1.11	0.515	0.267	0.15	0.09	
3500						1.50	0.697	0.365	0.204	0.124	
4000							0.91	0.47	0.264	0.153	
4500								1.15	0.593	0.33	0.20
5000									0.73	0.41	0.244

## Terms Used in Measuring Water for Irrigation.

A miner's inch in Montana is the quantity of water flowing through an opening 1-in. wide under a 6-in. head, equal to 12 gallons per minute.

Some states use a 4-in. head equal to 9 gallons per minute.

A cubic foot per second equals 450 gallons per minute.

An acre foot is 325,829 gallons per minute.



## Little Dandy Hand Power Mixer.

MODEL "A"



We also  
have  
Concrete  
Box  
Machines.

No. 8-A-92.

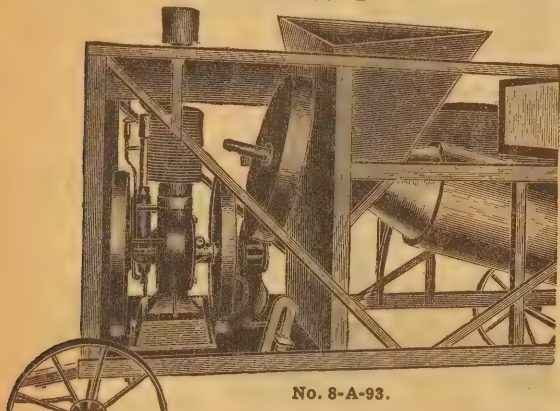
This mixer will turn out with less labor, as much concrete as any power driven machine. It can be operated by independent power if desired. Its output depends upon the man at the crank, but it must not be supposed that a man can do the work of an engine. This mixer has a capacity of 5 yds. per hour.

When operating this machine, see that the same is not overloaded, and keep the feed down to limitation of man's strength and endurance.

Our Model A hand power machine weighs approximately 700 pounds. This machine is mounted on wheels and can be readily moved about by a few men, making it invaluable for street work of all kinds. It is also possible to place this machine in any desired position so as to discharge directly into a trench or forms.

## Little Dandy Two Hopper Power Mixer.

MODEL "B"



No. 8-A-93.

Weight of Power Model B Two Hopper Mixer 1,500 pounds.

This mixer has the same general construction as the hand power machine with the exception of being built on heavier lines. It will readily turn out double the product of the hand machine. No job too small, none too large for this mixer.

**THE CAPACITY OF THIS MIXER IS 10 YARDS PER HOUR.**

The output however, can be limited to a smaller amount by partially closing the feed gates. The engine is mounted upon the same frame, and has a belt connection that is simplicity in itself, and cannot possibly give trouble.

The frames are built of angle irons well trussed which makes them light but amply strong, as experience has proven. All joints are securely riveted. The hoppers are of heavy sheet iron, the bottom being formed by a rubber belt passed over pulleys. When the power is thrown on by a lever, this belt acts as a conveyor, throwing out the respective materials through orifices provided with adjustable gates to show the surface inches of the openings when set at any given point. By regulation of these gates, the exact proportion required can be obtained and varied at will.

The hoppers are equipped with rotary cork screw agitators which prevents bridging, and forces the material toward the gates. The interior surface of the revolving drum is longitudinally ribbed by means of which the materials are tumbled over and over while still dry as the drum rotates, gradually approaching the discharge end. When within 15" of the lower end of the drum, a sprinkling device wets to any consistency desired, the flow of water in greater or less quantity, being regulated by a valve.

The height of the hoppers on this machine is 50" from the ground, the discharge 15" from the ground. The engine on this mixer is rated at 2 to 2½ H. P., and this size is ample for the purpose. This is a thoroughly reliable engine of the 4 cycle type, is AIR COOLED, GEARLESS, fitted with VARIABLE COMPRESSION, mechanical ignition, and is most economical engine in the use of fuel.

## Little Dandy Three Hopper Mixer.

MODEL "C"

The mixer is also built on somewhat different plans from Models A and B, being heavier in construction, having a larger and different mixing drum, and wider, heavier conveying belt, and is provided with three hoppers so as to automatically feed and proportion all three materials, where cement, sand, and stone are used. It requires little if any more power to operate, and the same engine is used as in Model B. Weight of power mixer Model C, three hopper, is 1,905 pounds.

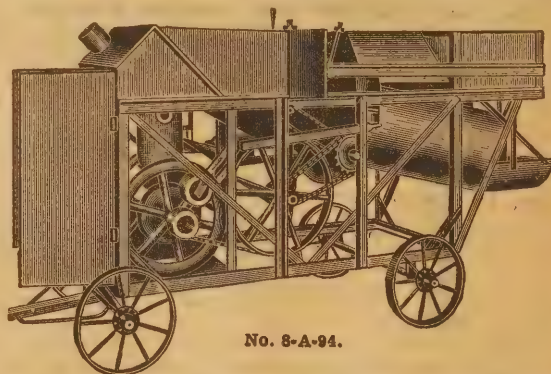
**THE CAPACITY OF THIS MACHINE IS 15 YARDS PER HOUR.**

The output, however, can be limited to a smaller amount by partially closing the feed gates. The engine is mounted upon the same frame, and has a belt connection which is simplicity in itself, and cannot possibly give trouble.

The frames are built of angle irons well trussed which makes them light but amply strong, as experience has proven. All joints are securely riveted. The hoppers are of heavy sheet iron, the bottom being formed by a rubber belt passed over pulleys. When the power is thrown on by a lever, this belt acts as a conveyor, throwing out the respective materials through orifices provided with adjustable gates to show the surface inches of the openings when set at any given point. By regulation of these gates, the exact proportion required can be obtained and varied at will.

The hoppers are equipped with rotary cork screw agitators which prevents bridging, and forces the material toward the gates. The interior surface of the revolving drum is longitudinally ribbed by means of which the materials are tumbled over and over while still dry as the drum rotates, gradually approaching the discharge end. When within 15" of the lower end of the drum, a sprinkling device wets to any consistency desired, the flow of water in greater or less quantity, being regulated by a valve.

The height of the hoppers on this machine are 50" from the ground, the discharge 23" from the ground. The engine on this mixer is rated at



No. 8-A-94.

2 to 2½ H. P., and this size is ample for the purpose. This is a thoroughly reliable engine of the 4 cycle type, is AIR COOLED, GEARLESS, fitted with VARIABLE COMPRESSION, mechanical ignition, and is a most economical engine in the use of fuel.

**POWER.** The Marvel Non-Heating Air Cooled Gasoline Engine is used to operate the Little Dandy Mixers, and the 2 to 2½ power size is ample for the purpose.

**THE ENGINE.** This is a thoroughly reliable engine of the 4 cycle type, possessing features found in no other engine. IT IS AIR COOLED, GEARLESS, has a VARIABLE COMPRESSION, mechanical ignition, and is more economical in the use of fuel than any other engine made.

**First.** The arrangement of the inlet and exhaust valves is such that the incoming gas completely surrounds the exhaust valve, not only serving to cool the latter, but to warm the incoming charge.

**Second.** The use of an auxiliary exhaust, whereby nearly the whole of the exhaust gas is discharged through a free passage, thus avoiding the heating of the exhaust valve proper.

**Third.** By the application of our arrangement for obtaining a VARIABLE COMPRESSION, we have less interior surface of the cylinder exposed to the heating. By means of extremely thin, and exceptionally deep corrugations on the exterior of the cylinder, we obtain a maximum of radiating surface.

**Fourth.** By means of the VARIABLE COMPRESSION, the expansion of the gas is carried to a greater degree, thereby utilizing more of the energy, and discharging at a lower temperature.

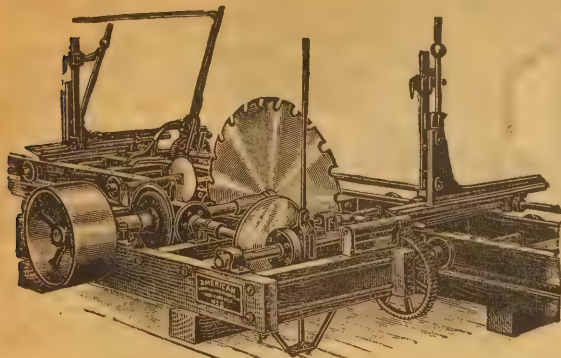
**Fifth.** This engine is eliminated of the use of gears, by applying an eccentric on the crank shaft, which operates the exhaust valve. This arrangement when once set, makes it impossible for the novice to change the timing of the valve mechanism, which frequently occurs, when gears are used, and causes trouble. The use of this device results in a practically NOISE-LESS ENGINE, and also a much greater regularity of governor. If you have not seen these machines in operation you should do so at once. You should have one now, for otherwise you will never truly realize what the Little Dandy can do for you. If we have not made ourselves perfectly clear on these engines and mixers, kindly write us for further information, and do not hesitate to ask all the questions you wish on same, and we will try and give you correct answer by return mail, also quote prices and terms.

REPAIR PARTS FOR THESE MIXERS CAN  
BE HAD FROM US. LET US HAVE YOUR  
ENQUIRIES.



# AMERICAN SAW MILL MACHINERY

The Synonym of Merit, Worth, Advancement, Improvement.



Every machine is set up and carefully tested, and when it leaves our factory is known to be complete and in proper working condition; hence, if properly set up and operated without prejudice, we warrant them to give entire satisfaction.

If a machine should fail to start off satisfactorily, it is generally because the operator is not familiar with it, and it is not properly set up and adjusted. In such cases, if the purchaser will notify us and state as near as possible the trouble, we can generally give advice necessary to remedy the difficulty.

The Husk Frame and Carriage are made of the best selected Southern yellow pine. The Mandrel is made of the best grade of steel, turned and ground perfectly true, with well proportioned collars. The lug pins are fitted in an improved manner so that they can easily be removed right at the mill if they should become sheared off.

The Nut is so made that the threads cannot be stripped or bruised and the saw can be easily removed without moving the guide.

Saw Guide is of improved design, with large throat, can be used either right or left hand, is adjustable while saw is in motion, and can be easily thrown out of the way for removing or changing saws.

Our Variable Friction Feeds are the simplest, yet most durable, perfect and effective ever devised. It is positive and responds instantly to the slightest movement or pressure of the feed lever. It is this feature which distinguishes our mills from all others, makes them so very light running and adapted to use with small power of all kinds. The Sawyer with one hand, has absolute control of the mill at all times, can vary the feed to correspond with the power or the size and quality of timber to be cut, easing down for a hard place and instantly increasing the feed again as quick as it is past.

**Head Blocks and Knees.** Our head Block Bases are cast in one piece, and in such form as to insure the greatest strength. They are accurately planed to gauges and the knee carefully fitted so that it will slide freely, yet without lost motion. They open for actual use full width as per specifications. They are heavy and strong, have graduations full length and provided with convenient setting gauge.

**The Set Works.** Our "Ideal" set works and quick receder are now used on our Standard Mills Nos. 1 to 5, inclusive. The set works are guaranteed accurate and positive, and the receder, operated by the same lever, is of immense value as a time saver. A straight pull for either setting or receding. No tiresome twisting motion for releasing saws.

## SPECIFICATIONS OF No. 1 STANDARD SAW MILL

No. 8-A-4.  
Husk frame, 7' long 3' wide; timbers, 3½"x7½".  
Mandrel, 2 3-16" diameter, 4' 4" long with pulley 20"x10".  
Length of carriage, 16', width, 26".  
Length of rack beam, 22".  
Size of carriage timbers, 3½"x5½".  
Number of trucks, 4, with 6" wheels and 1½" axles.  
Length of steel track, 40".  
Number of head blocks, 2, with dogs.  
Head blocks, open, 34".  
Length of set shaft, 14".  
Weight of mill, 2,100 lbs.  
Weight of wood track stringers, 450 lbs.  
Capacity, 7,000 to 8,000 feet per day.

## SPECIFICATIONS OF No. 2 STANDARD SAW MILL

No. 8-A-5.  
Husk frame, 7' 6" long, 3' 6" wide; timbers, 3½"x9½".  
Mandrel, 2 5-16" diameter, 5' long, with pulley 20"x10".  
Length of carriage, 20'; width, 30".  
Length of rack beam, 26".  
Size of carriage timbers, 3½"x5½".  
Number of trucks, 6, with 7" wheels and 1½" axles.  
Length of steel tracks, 48".  
Number of head blocks, 2, with dogs.  
Head blocks, open, 38".  
Length of set shaft, 16".  
Weight of mill, 3,000 lbs.  
Weight of wood track stringers, 550 lbs.  
Capacity, 10,000 feet per day.

## SPECIFICATIONS OF No. 3 STANDARD SAW MILL

No. 8-A-6.  
Husk frame, 8' long, 4' wide; timbers, 4½"x11½".  
Mandrel, 2 7-16" diameter, 5' 6" long, with pulley 20"x12".  
Length of carriage, 24', width, 36".  
Length of rack beam, 32".  
Size of carriage timbers, 4½"x6½".  
Number of trucks, 6, with 8" wheels and 1 7-16" axles.  
Length of steel track, 56".  
Number of head blocks, 2, with dogs.  
Head blocks, open, 44".  
Length of set shaft, 20".  
Weight of mill, 3,900 lbs.  
Weight of wood tracks stringers, 650 lbs.  
Capacity, 12,000 feet per day.

## SPECIFICATIONS OF No. 4 STANDARD SAW MILL

No. 8-A-7.  
Husk frame, 8' 6" long, 4' wide; timbers, 4½"x11½".  
Mandrel, 2 11-16" diameter, 5' 6" long with pulley 20"x12".  
Length of carriage, 24', width, 40".  
Length of rack beam, 32".  
Size of carriage timbers, 5½"x5½".  
Number of trucks, 6, with 10" wheels and 1 7-16" axles.  
Length of steel tracks, 56".  
Number of head blocks, 2, with dogs.  
Head blocks, open, 48".  
Length of set shaft, 20".  
Weight of mill, 4,500 lbs.  
Weight of wood stringers, 650 lbs.  
Capacity, 15,000 to 20,000 feet per day.

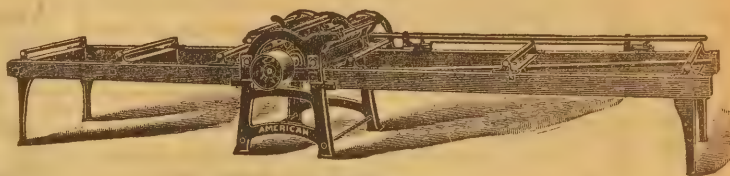
## SPECIFICATIONS OF No. 5 STANDARD SAW MILL

No. 8-A-8.  
Husk frame, 9' long, 5' wide; timbers, 5½"x11½".  
Mandrel, 2 15-16" diameter, 6' long, with pulley 24"x14".  
Length of carriage 24', width, 44".  
Length of rack beam, 32".  
Size of carriage timbers, 5½"x7½".  
Number of trucks, 6, with 12" wheels, 1 11-16" axles.  
Length of steel track, 56".  
Number of head blocks, 2, with dogs.  
Head blocks, open, 52".  
Length of set shaft, 20".  
Weight of mill, 6,000 lbs.  
Weight of wood track stringers, 1,000 lbs.  
Capacity, 20,000 to 25,000 feet per day.

## AMERICAN "JUNIOR" GANG EDGER.

### SPECIFICATIONS.

Table rolls of cold steel with iron bearings.  
Steel mandrel, 1½" with babbitted boxes.  
Driving pulley, 10" diameter, 8" face; speed about 1,500 revolutions per minute.  
Feed pulleys, 18"x4".  
Driven feed rolls, 3" diameter. Pressure rolls, 5½" diameter.  
Saw, 16" diameter with 4" hole.  
Extreme length and width, 18'3" by 47".  
Extreme width between guides, 33".  
Greatest distance between saws (3 saw machine) 19".  
Greatest distance between saws (2 saw machine) 23".  
Greatest distance between stationary and adjustable saw, 2".  
Weight, single roll machine, net, 1,425 lbs. Gross, 1,700 lbs.  
Weight, double roll machine, net, 1,575 lbs. Gross, 1,850 lbs.  
Cubic contents boxed for export, 72 cubic feet.  
State whether single or double pressure roll is desired and whether a 2 or 3 saw edger; can furnish without saws or with solid or inserted tooth saws.  
In ordering, specify if a right or left hand machine is wanted.

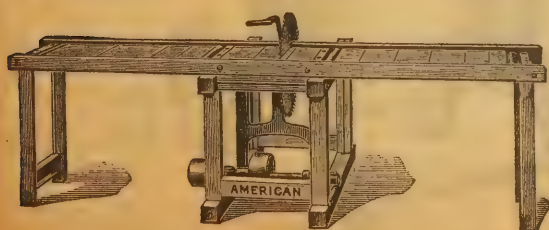


No. 8-A-9.

### FULL LENGTH VIEW.

Shifting levers are securely held in position by ratchet.

## AMERICAN "PERFECTION" TABLE CUT-OFF-SAW.



No. 8-A-10.

Every well equipped saw mill, planing mill, or other wood working establishment must have one or more cut-off saws, either of the swinging or table type.

To meet the increasing demand for a low priced, yet good machine of the latter type, we offer our "Perfection" Table Cut-off Saw shown in the accompanying cut which has been carefully designed and is well made throughout of best materials and workmanship.

The frame is made of seasoned hard wood strongly bolted together, the table is 20' wide and 10' long, being fitted with four 3" idle rolls and a guide rail at the rear providing for easy handling of timber and accurate cutting.

The mandrel is of best grade cold rolled steel, runs in babbitted boxes and is carried in a strong, solid cast iron swinging frame which is latched to the countershaft below, thus insuring rigidity and durability. Any size saw can be used from 18" up to 24".

Timbers in main frame, 3½"x3½".

Timbers in table frame, 2"x4".

Mandrel (steel) 1½" for saws with 1½" hole.

Mandrel pulley, 4"x4".

Size of saw furnished, 20".

Pulley on countershaft, 6"x6". Speed, 1,500 rev.

Floor space required, 4'x10'.

Weight, net, 460 lbs.; gross, 575 lbs.

Packed for export, one crate 28 cubic feet.

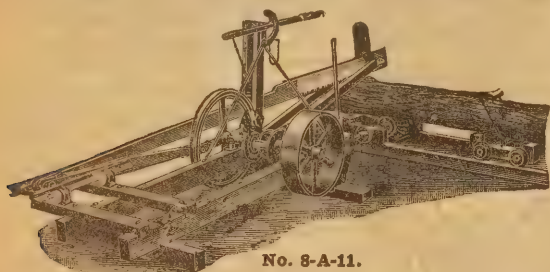


## "American" Champion Friction Feed Drag Saw.

This machine, as its name indicates, is the Champion among Drag Saws, having decided advantages over all others on the market. It is strong and durable, simple in construction, easy to operate and a most rapid worker.

The main frame is 26" wide, 84" long and is made of 3x5" seasoned hard wood strongly framed together, securely bolted and braced.

The track is 27" wide, 18' long, made of 2x4" timbers well framed together. The Friction Feed is very simple, yet positive and effective. It will start, stop or reverse, instantly by very slight motion of the feed lever, without any effort on the part of the operator. It will not stick or get out of order and will last for years. This enables the operator to feed the logs ahead or back at will as much or little as desired, and stop at any point without running back or losing time. This feature alone puts the



No. 8-A-11.

"Champion" ahead of any other Drag Saw in the market, yet it has every practical advantage that can be desired in a machine of its kind.

The Balance Wheel is large and heavy, and counter balanced, imparting a strong steady motion, and is arranged for changing the stroke from 16" to 20" or 24".

The Log Truck is very substantial, having steel axles and two dogs for securely holding the logs.

The Saw is raised with one hand and the friction feed operated with the other, thus changing and setting for a new cut without slowing down or stopping. A strong, reliable saw guide is also provided.

Unless otherwise ordered each machine is furnished complete with 24x6" driving pulley, log truck, power rolls, tumbling rod with two Universal Couplings, 18' of track and one 5' 6" saw.

Tight and loose pulleys can be furnished if so desired at small additional price.

When operated by sweep horse power the driving shaft is fitted with Universal Coupling for tumbling rod instead of driving pulley.

We can supply this Drag Saw without power feed and with a Ratchet Lever to operate the feed rolls, thus making a most desirable hand feed machine at very low price.

Capacity: 30 to 40 cords of wood per day, depending on kind of wood, power and speed.

Power required: Two to four horse power will operate to good advantage; more power will give machine greater capacity.

Speed recommended: 125 to 175 strokes per minute.

Length of stroke may be adjusted to 16", 20" or 24".

Weight complete, 1,150 pounds. Weight packed for shipment, 1,300 pounds. Weight packed for export, 1,450 pounds; 51 cubic feet.

PRICES ON APPLICATION.

## "American" Combined Lath Mill and Bolters.

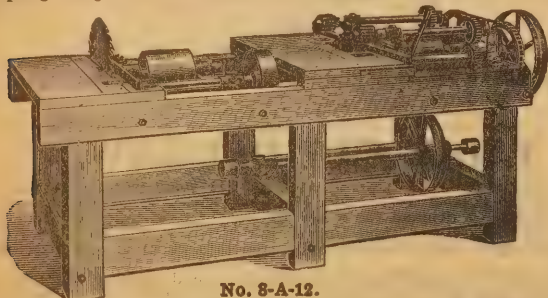
This cut shows our Combined Gang Lath Mill and Bolter which is one of the best machines of the kind on the market, and is very popular with saw mill men in every part of the country.

The frame is made of hard wood, mortised and tenoned, and securely bolted together, making it very substantial and durable.

The Arbors are of best grade steel, run in self-oiling boxes which are cast solid with the iron husk frame, to which all the working parts are attached, thereby keeping everything in line, and avoiding the heating of the bearings.

The Lath Mill is fitted with two sets of power feed rolls, one set in front and one behind the saws.

Springs are provided for regulating the pressure of the rolls on the stock,



No. 8-A-12.

and the tension may be changed as desired. The arbor of the Lath Mill may be fitted for any number of saws, from three to six, as may be ordered, but usually only three saws are furnished.

Changing Saws is very easily and rapidly done by removing a section of the blade.

The Bolter is furnished with one wide Feed Roll. The Guide is adjustable, and can be instantly set for any width required. Pressure Roll furnished for Bolter when desired at small additional cost.

Frame, 8' long, 37" wide, 27" high. Lath saws, 10". Bolter saws, 22".

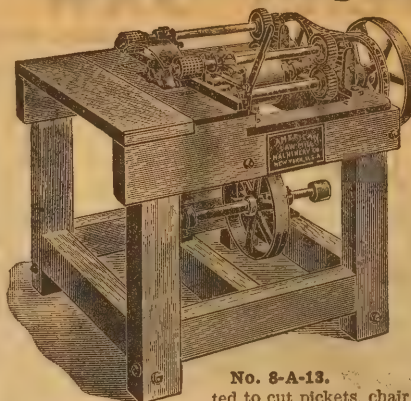
Driving Pulleys on both mandrels, 8"x8".

Speed of lath saws, 2,700; bolter saw, 1,400.

Weight of combined machine, net, 1,050 lbs.

Can furnish the above machine complete with 3, 4, 5 and 6 Saws and 1 Bolting Saw.

## "American" Gang Lath Machine.



No. 8-A-13.

This cut shows our Improved Gang Lath Mill, which is the same construction as the combined machine without the Bolter.

The Mandrel is of the best grade steel, turned and polished, and runs in babbitted boxes and may be fitted for any number of saws, from three to six as may be ordered, but usually only three saws are furnished.

Springs are provided for regulating the pressure of the rolls on the stock, and the tension may be changed as desired.

Changing Saws is very easily and rapidly done by removing a section of the blade.

Machine can be fitted to cut pickets, chair stock or any small squares

### DIMENSIONS.

Frame, 37" long, 37" wide, 27" high Weight packed for export, gross, 700 lbs.

Lath Saws, 10". Cubic measurement, about 25 cubic feet.

Driving pulleys on mandrel, 8"x8". Capacity 30,000 to 40,000 laths per day.

Speed of lath saws, 2700. Can furnish with 3, 4, 5 or 6 saws.

Weight of machine, net, 550 lbs.

## "American" Wood Splitter or Power Axe.

This cut represents our wood frame Power Wood Splitter, but when desired we build the machine with iron frame.

It is designed to withstand the strains to which such a machine is necessarily subjected, and will soon pay for itself in any wood yard or kindling wood factory where much splitting is to be done. Hard, knotty maple, oak, pine, or other kinds of wood can be easily split. A single machine will split 4 or 5 cords per day.

The Wood is held in an upright position by the hands of the operator, the lower end resting on the bed plate, and merely turned around as the splitting is done. It can be erected on any strong floor or timbers embedded in the ground.

The Bed Plate has ample adjustment giving the machine a range for splitting wood 8" to 18" long.

The Crank Shaft is made of steel and runs in babbitted self-oiling boxes. The driving pulley weighs about 250 pounds and has heavy rim so as give plenty of momentum. It is 32"x6", and should run 150 revolutions per minute. One to two horse power required to operate successfully.

Net weight 1,230; gross weight, 1,450;

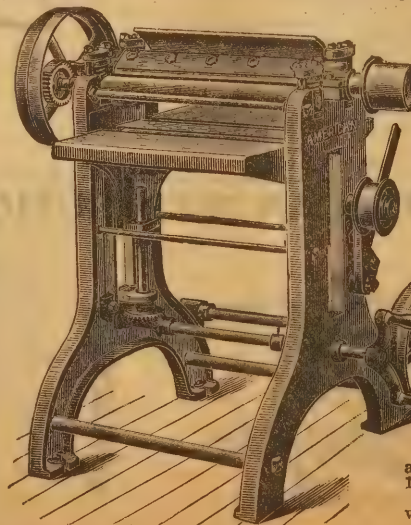
cubic contents, 30 c. f.

Can furnish single or double machine.

## "American" Jewel Planer.

This planer was designed to meet the requirements of those desiring a good but

light and low priced single surfaced planer. It is lighter than our Pony Planer and possesses many of its good points and is throughout an first-class machine. The material and workmanship



No. 8-A-15.

No. 8-A-14.

It is lighter than our Pony Planer and possesses many of its good points and is throughout an first-class machine. The material and workmanship

It has two driven feed rolls, one in the front and one in the rear of the cutter head.

The position of the cutter head is not changed for different thicknesses of lumber so that the driving belt remains tight though it is belted from any direction. Two speeds of feed are provided for by means of cone pulleys. All adjustments are quickly and easily made and in changing for different

thicknesses of planing, no bolts or screws have to be loosened or tightened. It works hard or soft wood equally well. Built in two sizes to plane 16" and 20" wide and 6" thick. Furnished either with or without countershaft.

Tight and loose pulleys on countershaft

are 8"x4" and should run 1,000 revolutions per minute.

16" with Counter Shaft; weight 637 lbs.

20" with Counter Shaft; weight 700 lbs.



**"American" Band Saw.**

This Machine is built from new patterns and is of the most approved design. The Frame is cored out and cast in one piece with very broad base, which insures stiffness, good floor support and absence of vibration.

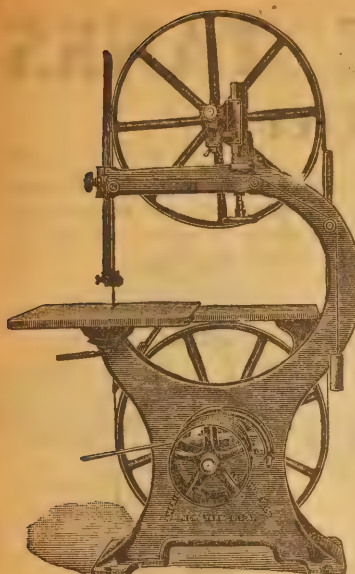
The Wheels are cast iron accurately turned and carefully balanced, with rims covered with rubber, and are so made throughout as to guarantee them remaining round and running true.

The Tables are iron and may be tilted to any angle up to 45 degrees, and held securely in any position by an ingenious clamping device.

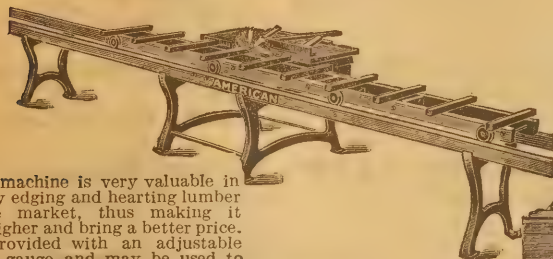
The Guide Bar is planed true and fitted with patent non-friction saw guide. It is counterbalanced and will raise 14 inches above the table to admit work of that thickness.

The Belt Shifter will receive a belt from any direction above or below the floor.

Tight and loose pulleys are 12"x4", and should run 400 revolutions per minute.  
36" Band Saw. Weight 1,100 lbs.  
26" " " " " 500 lbs.

**"American" Single Saw. HAND EDGER.**

No. 8-A-16



No. 8-A-17

This machine is very valuable in properly edging and hearting lumber for the market, thus making it grade higher and bring a better price. It is provided with an adjustable ripping gauge, and may be used to great advantage in making pockets, slats, shingle-lath, and doing other kinds of ripping.

The carriage will take a board 16' long, and is fitted with four sets of trucks mounted on steel axles, running in solid metal boxes. Substantial iron track is fitted to the ways. Furnished with one 16" solid saw.

**DIMENSIONS:**

Main table, 2'x4', fitted with gauge.  
Track ways, 32' long, 22" wide.  
Carriage, 14' long, 13 1/2" wide.  
Floor space required, 32'x4'6".  
Steel axles, 1 1/2" diameter. Trucks, 3 1/2" diameter.

Mandrel, 1 1/2" diameter—Hole in saw, 1 1/2".  
Driving pulley, 6"x6". Speed, 1,500 R. P. M.  
Weight, net, 865 lbs.; gross, 1,150 lbs.; cubic measurement, 42'.

**"AMERICAN" SWING CUT-OFF SAW.**

Can furnish Style "A" plain as shown in cut without saw, or style B with counterbalance without saw.

In this Spring Saw we have combined lightness, strength, rigidity, and low cost, thus producing a machine that will meet the requirements of everyone needing a cut-off saw of this type.

The frame is a combination of cast iron and steel channels, so braced as to prevent swinging or twisting. It swings on independent trunnions which are attached to the hangers, thus relieving the countershaft and bearings of all strains. The countershaft is so arranged that it may be suspended from the ceiling or fastened to wall.

The mandrel is of the best steel, and runs in self-oiling babbitted bearings, which are cast solid with the lower frame, thus insuring perfect alignment and easy running.

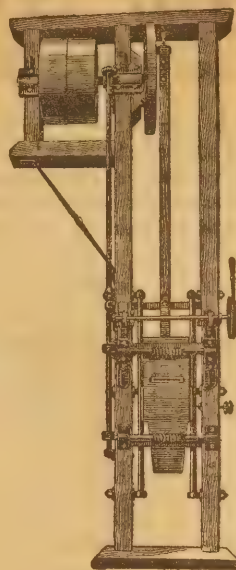
To provide for the wear of the saw and permit the use of larger or smaller saws, the lower frame which carries the mandrel has a vertical adjustment of 4", which is a very valuable feature. Ample provision is made for taking up wear and lost motion in all working parts.

Shorter or longer frames can be furnished to meet the requirements of purchaser.

**DIMENSIONS OF STANDARD LENGTH FRAME AS FOLLOWS;**

No. 8-A-18  
From countershaft to mandrel 6'  
Diameter of countershaft.... 1 1/2"  
Driving pulley ..... 16"x6"  
Tight and loose pulleys..... 10"x6"  
Revolutions per minute..... 650  
Mandrel, 1 1/2", with pulley.... 6"x6"

Any size saw may be used up to 24" with 1 1/2" hole.  
Net wt. of standard machine 382 lbs.  
Gross weight, 647 lbs. Boxed dimensions..... 6'8"x2'9"x1'1"

**"American" Excelsior Cutting Machines.**

No. 8-A-19

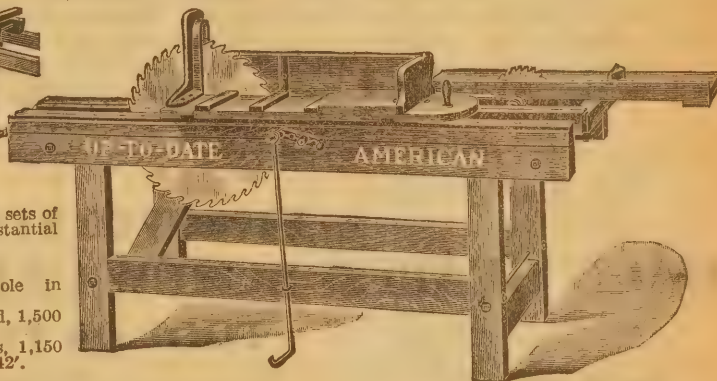
These machines are built throughout of the best obtainable materials and in the most thorough manner. They are heavy, strong, durable and embody every improvement which the experience of practical Excelsior makers and the best experts in this line in the United States have demonstrated as most desirable and necessary in such a machine. They will work equally well hard or soft woods.

The wood frames are constructed of best selected timber of ample proportions to withstand the working strains and are carefully mortised and securely bolted together.

The main bearings are very heavy, of the bracket chain-oiling type, lined with babbitt and provided with improved screw adjustment for taking up the wear.

The Guides are steel of such form as to insure the greatest strength and accuracy. These together with the feed roll, cutter plate and other working parts are mounted on a substantial self-contained cast iron frame, thus securing accurate alignment, rigidity and perfect cutting.

The frame which carries the adjustable feed roll is planed to accurately fit the slides on the cast iron frame, preventing side motion and causing the spurs to cut in the same slit in the wood every stroke and insuring a clean, uniform and superior grade of Excelsior and making it possible to produce the finest grades of Wood Wool.

**"American" Up-to-Date Shingle Machines.**

No. 8-A-20

To meet the demand for a reliable yet low priced Shingle Machine, suitable for small mills, farmers and others having light power, we have brought out our **"UP-TO-DATE"** Shingle Machine, shown in the accompanying cut. It is thoroughly well made throughout of the best materials.

The carriage is very substantial and provided with a strong iron yoke at the forward end. The underside is fitted with gibs, planed to accurately fit the iron track on which they slide and to which they hold the carriage securely. These gibs are slotted to provide adjustment for cutting thick or thin shingles and to take up lost motion.

Power feed is provided which is thrown into gear by pressure of the foot on the stirrup, and the machine can be used either with hand or power feed without change in adjustment.

The mandrel is of the best steel, with long, self-oiling boxes, connected by heavy yoke with adjusting screw for regulating the lead of the saw.

A New Feature, and a very desirable one, is the handy little edger, which has an 8" saw and a convenient gauge, insuring square, straight-edge shingles.

A Special Carriage and larger saw for bolting the shingle stock can be furnished, when desired, at small additional cost. Capacity 5,000 to 10,000 shingles per day. Experts have done more.

The machine will handle square, round or split blocks and does not require an experienced operator.

Furnished complete, with 24" shingle saw, 8" edger saw and feed and edger belts.

**DIMENSIONS:**

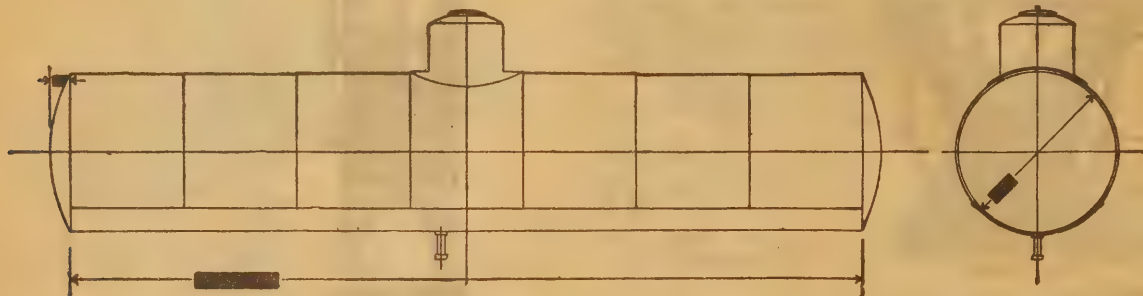
Frame, 7' long, 2' 5" wide. Carriage, 3' 8" long, 13" wide. Power feed 24". Main Mandrel, 1 1/2". Driving pulley, 6"x8". Weight, with edger, net, 625 lbs.; gr. 750 lbs. Power required, 4 to 10 H. P. Speed of 24" saw about 1,200 revolutions. Can furnish with or without edger. Bolting carriage extra. 36" bolting saw extra.



# 800 STEEL STORAGE TANKS

## 6,000 to 9,000 GALLONS CAPACITY

No. 8-A-95. These Tanks came off of railroad tank cars, that were used for transportation purposes on all railroads. They are double riveted, well braced, made of  $\frac{1}{4}$  inch steel and built for hard and unusually severe service. They were sold to us because they were found to be of smaller capacity than the present requirements of the company using them, and this is the only reason they are now offered. They are practically as good as new, as every tank before shipment is tested, repainted, carefully inspected, and, in fact, put in absolutely guaranteed first-class condition for storage purposes.

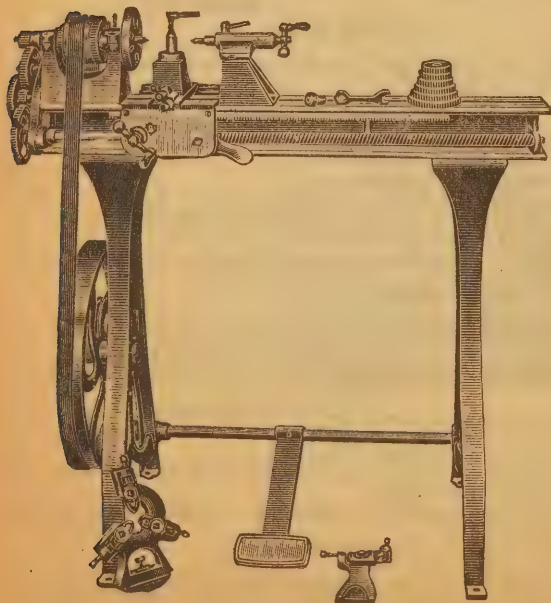


Each tank has a dome of standard size proportioned to its dimensions; also a 15 inch screwed manhole on top and 3 inch outlet on the bottom which is securely capped. They are suitable for the storage of oils, water or liquids of any kind.

Some of these tanks are equipped with heater coils. We also furnish you with tanks of larger and smaller dimensions, and will be pleased to hear from you in regard to your requirements in this line.

We have these tanks located at Whiting, Indiana; Lima, Ohio; Cleveland, Ohio; and Buffalo, New York; dimensions of which are 25 feet long by 76 inches diameter, approximating 6,000 to 6,200 gallons each.

## IMPROVED STANDARD BACK GEARED SCREW CUTTING ENGINE LATHE FOOT OR POWER



No. 8-A-91.

Cut Shows Size 9 inch Swing x 25 inch between centers.

This Lathe is adapted for jobbing and manufacturing shops, gunsmiths, electricians, model makers, inventors, etc.

It cuts threads from 3 to 40 per inch, right or left hand, and by compounding gears, threads may be cut up to 120 per inch.

Swings 9 inches over bed and 25 inches between centers.

Bearings are 1 3-16 inch in diameter, 2 1/4 inches long, and run in gun-metal boxes, provision being made to take up wear.

Head stock has hollow steel spindle with  $\frac{3}{8}$  inch, opening its entire length.

Tail stock has steel spindle, 1 inch diameter, reamed to No. 1 Morse Taper, with self discharging centers.

Bed is broad and heavy. Other parts being proportionately heavy, will work to its full capacity without trembling or jarring.

Planed parts are scraped to a bearing. All screws and working parts are covered to keep off chips and dirt.

Rack and gears are cut from steel by automatic machinery which insures smooth running.

With each lathe we furnish a face plate, two centers, wrenches and set of change gears.

If lathe is ordered with one single attachment (foot or power) there is no extra charge; but if both attachments are wanted there is an extra charge of \$8.00.

We guarantee our lathes to be first class in every particular and agree to replace, free of charge, any parts found defective in either material or workmanship. The above guarantee covers a period of one year from date of delivery.

Size.....	9 x 25
Net weight.....	350 pounds
Gross weight, boxed for export.....	425 pounds
Size of box for export .....	16 cubic ft.



# "Willey" Type "W" Direct Current, Multipolar Motors and Generators

These machines are our latest and most improved and are fitted with self-oiling bearings, self-feeding carbon brushes and are complete with pulley, belt tightener, rheostat for generators and starting box for motors.

They are guaranteed against all mechanical and electrical defects for a period of one year. They are further guaranteed to operate up to their full rated capacity without undue heating or sparking at the brushes.

The increase in temperature above that of the surrounding atmosphere, will not be greater than 40° Cent. after a full load run of ten hours. It will not be necessary to shift brushes for a change in load from no load to full load.

Machines are fitted with standard size pulleys and any changes therein will be charged for. Such charge being in accordance with the additional cost of the pulley furnished.

Machines can be furnished for either belt driving or direct connection. Prices include delivery F. O. B. Cars Louisville, Ky.

## TYPE "W" MULTIPOLAR MOTORS.

VOLTAGE CODE WORD.	CODE WORD.	SIZE No.	RATED H. P.	Approx. Number Revs. per Min.	Dia. and Face of Pulley in In.	Weight in Pounds.
Paint, 110 V.	Wile	1	1	1600	3 x 2	185
	Wilful	1	1	1500	3½ x 2½	275
	Will	2	2	1500	4 x 3	325
	Willow	0	3	1500	6 x 3	400
	Win	1	6	1500	7 x 4	670
Vane, 220 V.	Wince	2	10	1250	9 x 5	1060
	Wind	3	15	1250	10 x 6	1150
	Window	4	20	1200	11 x 6	1375
	Wink	5	25	1100	12 x 8	1835

## TYPE "W" MULTIPOLAR GENERATORS.

VOLTAGE CODE WORD.	CODE WORD.	SIZE No.	RATED K. W.	No. 16 C. P. 55 Watt Inc'd Lamps 125 Volts.	Approximate Number Revolutions per Minute.	AMPERES		Diameter and Face of Pulley in In.	WEIGHT IN LBS.
						125 V.	250 V.		
Painter, 125 V.	Wall	1	1	9	1900	4	2	3 x 2	185
	Wallet	1	1	18	1700	8	4	3½ x 2½	275
	Wallop	1	1	27	1500	12	6	4 x 3	325
	Walnut	0	2	40	1500	18	9	6 x 3	400
	Waltz	1	5	90	1500	40	20	7 x 4	670
Vainly, 250 V.	Wamble	2	8	150	1250	66	33	9 x 5	1060
	Wan	3	11	210	1250	92	46	10 x 6	1150
	Wander	4	15	270	1200	120	60	11 x 6	1375
	Wane	5	20	360	1100	164	82	12 x 8	1835

## MOTORS ALTERNATING CURRENT, 220 VOLT, 60 CYCLE, 3 PHASE.

We illustrate herewith Alternating Current Motors up to 7½ horse power. These are the Standard Willey Motors and are considered one of the best on the market. They are all strictly brand new and fully warranted and guaranteed by the makers as well as ourselves. The prices are very attractive. All of these motors are complete with Starting Box, Sliding Base and Driving Pulley.

H. P.	R. P. M.	\$	H. P.	R. P. M.	\$
1	1800	33.00	1	1200	50.00
1	1800	46.00	1	1200	55.00
2	1800	55.00	2	1200	68.00
3	1800	65.00	3	1200	80.00
5	1800	70.00	5	1200	95.00
7½	1800	130.00	7½	1200	150.00

## "WILLEY" DIRECT CONNECTED GENERATING SETS.

### The Generator.

In the type "W" machines the magnet frames are of a high grade cast iron with pole pieces of the best quality of steel cast in one piece with the magnet cores and having a turn shank fitting a board seat in the iron magnet yoke.

In the type "C" machines the magnet frames are of soft cast steel in which are provided machined seats to which are bolted laminated steel pole pieces.

The field coils and armature windings are form wound and the greatest care is taken to provide for proper insulation and ventilation.

The armature cores are built up of the best quality of annealed sheet iron discs, assembled on spiders, with hollow cores for air circulation.

The commutators are made of hard-drawn copper bars, insulated with the highest grade of mica, and machined perfectly true and smooth. The contact surfaces are of ample size to carry the current without undue heating.

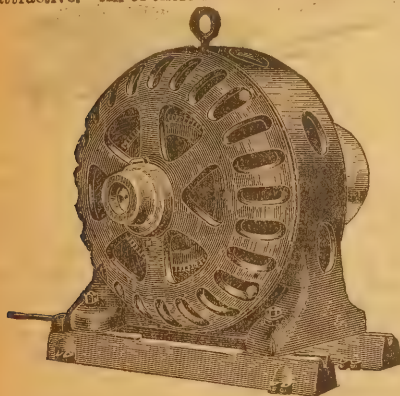
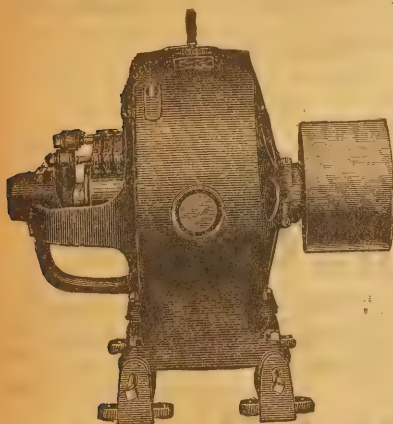
## Drill Presses.

In addition to our very large line of second-hand Tools we carry quite a number of strictly brand new Drill Presses, as follows:

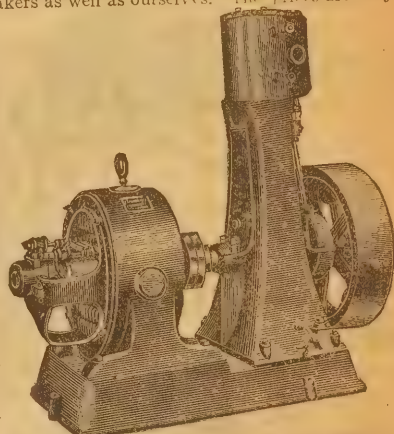
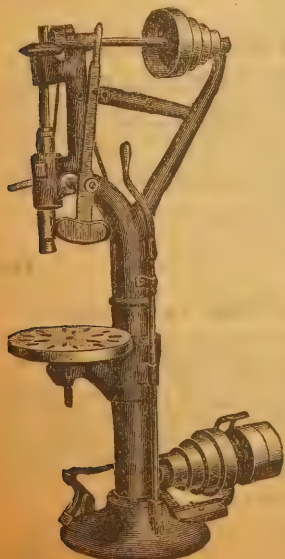
### DIMENSIONS OF SILVER'S NEW POWER DRILLS.

Height	68½ in.
Diameter Column	16 "
Table	16 "
Spindle	1½ "
Vertical Travel of Spindle	10 "
Table	16 "
Spindle bored for No. 3 Morse Tapper	
Distance from column to center of table	10½ "
Distance from spindle to base	41½ "
Distance from spindle to table	26½ "
Distance from Crown Gear	5½ "
Diameter of Crown Gear	3½ "
Diameter Large Pulley on Cone	9½ "
Diameter Small Pulley on Cone	4 "
Cone carries 2½ in. belt	
Tight and loose pulleys	8x 2½ "
Floor Space—square base	46x16 "
Floor Space—round base	36x20 "

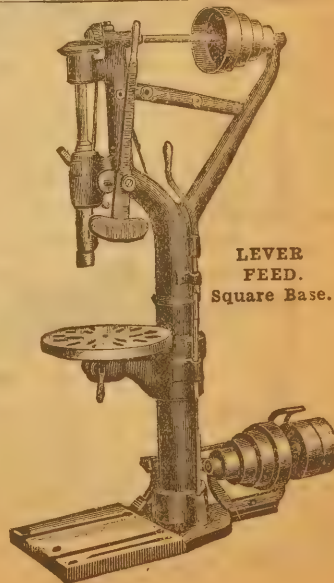
Write for special prices.



LEVER FEED.  
Round Base.



LEVER  
FEED.  
Square Base.





# \$3.60 AND UP PERFECTION SOLID STEEL ROAD SCRAPERS

The Perfection Scraper is made of heavy hardened steel of the toughest quality and is shaped on a new scientific principle, which utilizes the great strength of this steel to the best possible advantage. Has no sharp curves, angles or overlaps. It is the easiest filling and easiest dumped scraper manufactured. The swivel by which the scraper is pulled works easily and allows the bowl to adjust itself to any unevenness in the ground without losing off dirt. The bowl which is long and deep is compact and rigid and has a large wearing surface and the workmanship is perfect in every detail. Fitted with steel bales having perfect working swivels, steel ears and handle pockets and hardwood handles. We furnish the Perfection Scrapers with either plain bottom, double bottom or with double runners.

Double runner scrapers are fitted with two steel runners  $1\frac{1}{2}$  inches wide by  $\frac{1}{2}$  inch thick.

The double bottom scrapers are made with a piece of heavy steel riveted to the bottom, thus protecting the wearing surface.

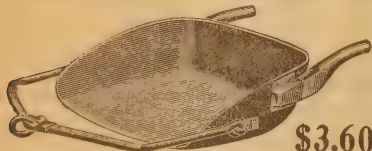
The plain bottom scraper has no runners or steel plates to resist wear.

No. 1 scraper has capacity of 7 cubic feet and weighs about 100 pounds.

No. 2 scraper has capacity of 5 cubic feet and weighs about 90 pounds.

No. 3 scraper has capacity of 3 cubic feet and weighs about 80 lbs.

Shipped direct from factory, Southern Michigan.

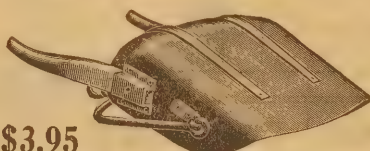


**\$3.60**

No. 4-A-1435. Size, No. 1, smooth bottom scraper. Price. .... **\$4.25**

No. 4-A-1436. Size No. 2, smooth bottom scraper. Price. .... **3.95**

No. 4-A-1437. Size No. 3, smooth bottom scraper. Price. .... **3.60**

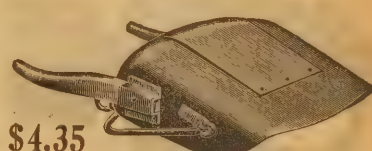


**\$3.95**

No. 4-A-1438. Size No. 1, double runner scraper. Price. .... **\$4.50**

No. 4-A-1439. Size No. 2, double runner scraper. Price. .... **4.23**

No. 4-A-1440. Size No. 3, double runner scraper. Price. .... **3.95**



**\$4.35**

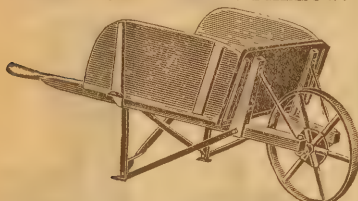
No. 4-A-1441. Size No. 1, double bottom scraper. Price. .... **\$5.00**

No. 4-A-1442. Size No. 2, double bottom scraper. Price. .... **4.65**

No. 4-A-1443. Size No. 3, double bottom scraper. Price. .... **4.35**

## Garden and Contractors' Wheel Barrows

### PERFECTION GARDEN BARROW.



Made with steel legs and braces. Has the finest finish and is the most durable garden barrow ever manufactured. It is neat in design; handsomely painted and has selected hard wood handles. The frame is made of angle bar with the foot turned so that it will not injure the lawn. Frame and wheel are black japanned. The wheel is 16 inches in diameter; tire is  $1\frac{1}{2}$  inches wide by  $\frac{1}{2}$  inch thick. Size of bottom is 21 by 27 inches, 12 inches deep. No. 4-A-1444. Price. .... **\$2.40**

### STANDARD RAILROAD BARROW.

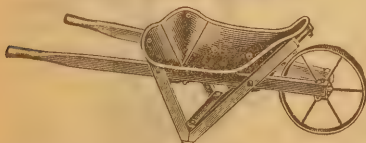


The barrow and tray are made of well seasoned hard wood lumber. Tray is bent and planed on both sides. The legs are bolted to the handles and extra well braced. The barrow is full size and fully guaranteed. Has 16 inch steel wheel,  $1\frac{1}{2}$  inch on tread.

Weight, approximately 40 pounds.

No. 4-A-1445. Price. .... **\$1.35**

### STEEL TRAY BARROW.

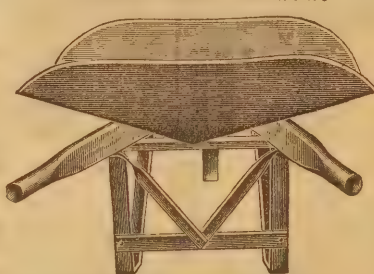


Is a strictly first class barrow, well made. The steel tray is made of No. 18 gauge steel and shaped like a wooden tray. It has, however, a greater advantage over the wood tray inasmuch as it will not warp or split and will give much more service than any wood tray barrow manufactured. The handles and frame are made of selected hard wood, extra well bolted. Has steel wheel 16 inches in diameter,  $1\frac{1}{2}$  inch on tread.

Weight, 45 pounds.

No. 4-A-1446. Price. .... **\$2.00**

### CONTRACTORS' BARROW.



We wish to call your particular attention to the construction of this barrow. As you will note from illustration it has steel legs and braces, hard wood handles, steel wheel and tray. Tray has a capacity of 4 cubic feet and is made of No. 14 gauge steel, with heavy turned edges. Four bolts through bottom, tray and frame.

Wheel is 16 inches in diameter,  $1\frac{1}{2}$  inch on tread and is  $\frac{3}{4}$  inch thick. The legs and braces are made of one solid piece of steel with solid steel foot bar, double braced. This is the most serviceable and durable contractor's barrow manufactured.

Weight, 50 pounds.

No. 4-A-1447. Price. .... **\$3.25**

### CONCRETE BARROW.



The legs and braces are made of one solid piece of steel with solid steel foot bar, double braced. The barrow can be used for cement, concrete, ashes or coal. The steel tray has a heavy rolled edge, is 28 inches wide, 30 inches long, 10 inches deep at handle end and 19 inches deep at wheel end. Has heavy steel wheel 16 inches in diameter,  $1\frac{1}{2}$  inch on tread,  $\frac{3}{4}$  inch thick and is mounted on an improved axle bolt.

We guarantee this to be the best concrete barrow on the market.

Weight, 65 pounds.

No. 4-A-1448. Price. .... **\$4.25**

### TUBULAR STEEL BARROWS.



For earth, sand, gravel and mortar. This barrow is extra well constructed. The tray is made of No. 16 gauge steel. The handles are in one piece, bent, forming a nose piece around the wheel. The wheel is mounted on a patent hook axle bolt. Size of tray: Length on top 34 inches; width on top 27 inches; depth at wheel 14 inches; depth at handle 6 inches; greatest depth, 14 inches.

Capacity,  $3\frac{1}{2}$  cubic feet.

Weight, 65 pounds.

No. 4-A-1449. Price. .... **\$4.25**

### TUBULAR STEEL MINING BARROW.

This is the most excellent general purpose barrow on the market and is adapted to the heaviest work in mines, quarries, foundries and mills. The wheel is mounted on a patent axle bolt. The tray is bent and has heavy roll on edge and made of No. 14 gauge steel. Size of tray: length on top, 34 inches; width on top, 27 inches; depth at wheel, 14 inches; depth at handle, 16 inches; greatest depth, 14 inches.

Capacity  $3\frac{1}{2}$  cubic feet.

Weight, 70 pounds.

No. 4-A-1450. Price. .... **\$4.50**

### TUBULAR STEEL COAL BARROW.

This barrow is extra well constructed and has a capacity of 250 pounds of coal. Has a steel wheel 16 inches in diameter, mounted on patent axle bolt. The tray is made of No. 14 gauge steel, designed so the load is well balanced over the wheel. The handles are in one continuous piece, forming a nose around the wheel. Size of tray: length on top, 38 inches; width on top, 30 inches; depth at wheel, 18 inches; depth at handle, 7 inches; greatest depth, 18 inches.

Capacity, 4 cubic feet.

Weight, 75 lbs.

No. 4-A-1451. Price. .... **\$5.00**



# MISCELLANEOUS DEPARTMENT

The World's Greatest Bargain House should naturally accumulate a vast quantity of miscellaneous material which it is impossible to correctly list and classify. We have thousands upon thousands of these items and are giving you below a partial list, taken at random from our stock. Many of these items are brand new, but having become slightly shopworn, we are forced to sell them at a sacrifice.

All second-hand material will be put through our shops before shipment, carefully overhauled, and made practically as good as new. We will guarantee them all to be in perfect working order. Somewhere in this list you will find an item just what you are looking for. Be sure, therefore, to read very carefully every item given below, and if you are interested, let us know. We will then quote a price that will be so low that you will be well repaid for your investment.

We know that we can save you money upon anything in this line, and it will well be worth your time, when you are in the market for anything in this line, to advise us. We will then go over our stock and if we have anything to offer, you may rest assured our price will be way below the cost of manufacture.

In ordering or corresponding always mention Item and Lot No. and give second choice.

## CORLISS ENGINES

- No. E. P. 14. 16"x42" R. H. Allis Corliss, H. P. 150.  
No. E. P. 13. 18"x36" R. H. Wetherell Corliss, H. P. 175.  
No. E. P. 10. 18"x42" R. H. Allis Corliss, H. P. 200.

## AUTOMATIC ENGINES

- We buy only the best in this line and will guarantee all our Automatic Engines.  
No. E. 115. 7"x9" Climax Horiz. Auto. Engines, H. P. 10.  
No. E. 135. 9"x12" Phoenix Auto. Horiz. C. C. Engine, H. P. 25.  
No. E. O. 293. 10"x16" R. H. Atlas Auto H. P. 50.  
No. E. O. 164. 10"x16" L. H. Atlas Auto., H. P. 50.  
No. E. 124. 10"x16" Atlas Horiz. C. C. Auto. Engine, H. P. 50.  
No. E. 27. 12"x15" Horiz. Auto. S. C. Beck Engine. Mfgd. by Taylor Mfg. Co., H. P. 50.  
No. E. O. 243. 12"x18" R. H. Atlas Auto., H. P. 85.  
No. E. O. 129. 12"x20" L. H. Atlas Auto., H. P. 85.  
No. E. 57. 12"x20" Horiz. Auto. Atlas Engine, H. P. 85.  
No. E. O. 276. 13"x26" R. H. Cumner Auto., H. P. 100.  
No. E. 54. 15"x15" Auto. Horiz. C. C. Engine. Mfgd. by Phoenix Iron Works, H. P. 12.  
No. E. 118. 15"x16" Auto. Horiz., C. C., Armington & Sims Engine, H. P. 150.  
No. E. 119. 16"x16" Auto. Horiz., C. C., N. Y. Safety Engine, H. P. 150.  
No. E. O. 154. 16"x18", C. C., Atlas Auto., H. P. 160.  
No. E. O. 257. 16"x24", R. H., Atlas Auto., H. P. 210.  
No. E. O. 300. 18"x24", R. H., Atlas Auto., H. P. 225.  
No. E. P. 601. 18"x16", C. C., Ball Auto., H. P. 200.

## THROTTLING GOVERNOR ENGINES

We pride ourselves upon our ability to overhaul engines and to make them practically as good as new

- No. E. 516. 7"x8", C. C., Slide Valve, H. P. 10.  
No. E. 256. 7"x8", Orr & Sembrower Slide Valve, H. P. 10.  
No. E. O. 285. 7"x10", C. C., Richards Slide Valve, H. P. 15.  
No. E. O. 280. 8"x12", C. C., Richards Slide Valve, H. P. 20.  
No. E. O. 193. 8"x12", C. C., Erie Slide Valve, H. P. 20.  
No. E. 221. 9"x12", C. C., Slide Valve, H. P. 25.  
No. E. O. 215. 9"x12", C. C., Erie Slide Valve, H. P. 25.  
No. E. O. 220. 9"x14", C. C., Slide Valve, H. P. 25.  
No. E. O. 228. 10"x12", C. C., Atlas Slide Valve, H. P. 40.  
No. E. O. 277. 11"x16", R. H., Atlas Slide Valve, H. P. 50.  
No. E. O. 267. 14"x18", L. H., Erie Slide Valve, H. P. 80.  
No. E. O. 18. 14"x18", C. C., Nagle Slide Valve, H. P. 85.  
No. E. O. 246. 14"x22", Self-contained Houston-Stanwood Slide Valve, H. P. 100.  
No. E. O. 66. 16"x24", R. H., Atlas Slide Valve, H. P. 125.  
No. E. O. 40. 16"x24", R. H., Frazer & Chalmers Slide Valve, H. P. 125.

## VERTICAL ENGINES

- Not only are we selling our Vertical Engines at unheard of prices, but we are offering some of the best manufactured goods in the country.  
No. E. O. 33. 2 1/2"x3 1/2", C. C., Reversible Marine, H. P. 2 1/2.  
No. E. O. 7. 2 1/2"x4", C. C., Uppenheimer, Vertical Slide Valve, H. P. 2.  
No. E. O. 297. 3"x4", Oscillating Engines, H. P. 3.  
No. E. O. 84. 3"x4", C. C., Slide Valve, H. P. 3.  
No. E. O. 179. 3"x5", C. C., Slide Valves, H. P. 3.

- No. E. 55. 3"x5", Vertical Acme Engine, H. P. 3.  
No. E. 25. 3"x5", Vertical Engine, C. C., H. P. 3.  
No. E. O. 9. 3"x4 1/2", C. C. Slide Valve, H. P. 3.  
No. E. 134. 4"x5", Vert. S. C., Engine, H. P. 4.  
No. E. 45. 4"x6", N. Y. Safety Vertical Engine, H. P. 4.  
No. E. 51. 5"x5", Vertical Huyett & Smith Engine, H. P. 6.  
No. E. 42. 5"x5", Vertical Auto. Engine, H. P. 6.  
No. E. O. 252. 5"x6", C. C., Hill & Co. Auto., H. P. 6.  
No. E. O. 250. 5"x7", C. C., N. Y. Safety Auto., H. P. 10.  
No. E. 23. 5"x7", Vertical C. C. Engine, H. P. 10.  
No. E. O. 517. 6"x7", Orr & Sembrower Co., Vertical Engine, H. P. 12.  
No. E. 43. 6"x7", Vert. Side Crank, 6 Powered Engine, H. P. 12.  
No. E. 37. 6"x8", Davis & Lankin Vertical Engine, H. P. 12.  
No. E. 46. 7"x7", Upright Engine, H. P. 14.  
No. E. 136. 7"x7", Vert. C. C. Auto. Piston Valve Engine Racine Make, H. P. 14.  
No. E. 28. 7"x8", N. Y. Safety Type Vertical Engine, H. P. 14.  
No. E. O. 116. 7"x9", Rice & Whittaker Oscillating, H. P. 15.  
No. E. 125. 7"x9", Vertical C. C. Engine, Mfgd. by Troy Engine Mach. Co., H. P. 15.  
No. E. 120. 7"x9", Vertical Side Crank Engine, Mfgd. by E. H. Wachs & Co., H. P. 15.  
No. E. 521. 7"x10", Nagle Vertical C. C., Throttling Governor Engine, H. P. 15.  
No. E. 48. 7 1/2"x10", Vertical C. C. Engine, H. P. 18.  
No. E. 56. 8"x8", Upright Engine, direct connected to 1 No. 6 Morris Cent. Pump, H. P. 20.

## SPECIAL HORIZONTAL ENGINES

- We find that we have duplicates of most of the following engines, and we feel that we are forced to quote ridiculously low prices on them.  
No. E. 38. 4"x5", Horizontal Engine, H. P. 5.  
No. E. 8. 4"x6", Horiz. Auto. Engine, direct connected to 1-Root, No. 2 Rotary Power Blower, H. P. 5.  
No. E. O. 05. 5"x7 1/2", C. C. Erie Slide Valve, H. P. 6.  
No. E. O. 238. 5"x8", C. C., N. Y. Safety Slide Valve, H. P. 6.  
No. E. 137. 5 1/2"x7", Horiz. C. C. Engine, H. P. 7.  
No. E. 123. 5 1/2"x8", Horiz. C. C. Engine, H. P. 7.  
No. E. O. 298. 6"x8", C. C., Skinner Slide Valve, H. P. 7.  
No. E. 121. 6"x8", C. C., Engine, Mfgd. by Erie Engine Works, H. P. 7.  
No. E. 117. 6"x9", Horiz. C. C. Engine, H. P. 7.  
No. E. O. 210. 6"x9", C. C., Slide Valve, H. P. 8.  
No. E. O. 63. 6"x10", Self-contained Slide Valve, H. P. 8.  
No. E. O. 230. 6"x12", L. H., Slide Valve, H. P. 10.  
No. E. O. 130. 7"x9", C. C., Erie City Slide Valve, H. P. 10.  
No. E. 112. 7"x10", Atlas Horiz., S. C., Engine, H. P. 15.  
No. E. O. 269. 7"x10", C. C., Reasser & Baker Slide Valve, H. P. 15.  
No. E. O. 229. 7"x10", R. H., Erie Slide Valve, H. P. 15.  
No. E. O. 278. 7"x10", C. C., Richards Slide Valve, new, H. P. 15.  
No. E. O. 266. 7"x11", L. H., Erie Slide Valve, H. P. 16.  
No. E. O. 244. 8"x10", C. C., Nagle Slide Valve, H. P. 18.  
No. E. 52. 8"x12", Erie City Horiz., C. C. Engine, H. P. 18.  
No. E. 10. 8"x12", Horiz. Auto. Atlas S. C., Engine, H. P. 81.  
No. E. O. 270. 8"x12", L. H., Columbia Iron Works Slide Valve, H. P. 20.  
No. E. O. 275. 8"x14", R. H., Slide Valve, H. P. 20.  
No. E. O. 272. 8"x16", Slide Valve, H. P. 20.

- No. E. 50. 8 1/2"x10", Horiz. C. C. Engine, H. P. 20.  
No. E. 34. 9"x10", Horizontal Lively C. C. Engine, H. P. 20.  
No. E. 107. 9"x12", Erie City Horiz. C. C. Engine, H. P. 20.  
No. E. 40. 9"x12", Ideal Horiz. C. C., Auto. Engine with Sub. Base, H. P. 20.  
No. E. 35. 9"x12", Horizontal Nagle Engine, H. P. 20.  
No. E. 113. 10"x12", Horiz. C. C., Shouvlín Engine, H. P. 25.  
No. E. 132. 10"x12", Atlas Horiz. C. C. Engine, H. P. 25.  
No. E. 103. 10"x16", Atlas Horiz., S. C., Engine, H. P. 30.  
No. E. 129. 10"x16", Erie City Horiz. C. C., Engine, H. P. 30.  
No. E. 49. 10"x16", Horiz. S. C. Engine, H. P. 30.  
No. E. 114. 12"x14", Atlas C. C., Engine, H. P. 50.  
No. E. 106. 12"x16", Horiz. S. C., Engine, H. P. 60.  
No. E. 135. 16"x36", Horiz. S. C., Engine, H. P. 125.

## PUMPS

Our stock of pumps is so large and varied, and comprising so many of the best pumps in the market that you cannot help but find the exact one that you need. We must, however, reduce our stock of pumps and will quote you a price that will interest you.

- No. P. O. 210. 2 1/2"x1 1/2"x2", Gardner Duplex Steam Pump with receiver, 1" suction, 1/2" discharge.  
No. P. 50. 2 1/2"x1 1/2"x4 1/2" Canton Duplex Pump.  
No. P. 521. 3"x1 1/2"x3" Worthington Duplex Steam Pump, 1" suction, 1" discharge brass fitted.  
No. P. N. 503. 3"x2"x3" Dean Duplex Steam Pumps, new, 1 1/2" suction, 1" discharge.  
No. P. O. 144. 3"x2"x3" Dean Duplex Steam Pump, 1 1/2" suction, 1" discharge.  
No. P. O. 173. 3"x2"x3" Smith Vail Duplex Steam Pump, 1 1/2" suction, 1" discharge.  
No. P. O. 72. 3"x2"x3" Deane Duplex Pumps, 1" suction 1/2" discharge.  
No. P. 22. 3"x2"x3" Worthington Duplex Steam Pump, 1 1/2" suction, 1" discharge.  
No. P. O. 118. 3"x2"x3" Snow Duplex Steam Pump, 1 1/2" suction, 1" discharge.  
No. F. 34. 3"x2"x3" Canton Duplex Steam Pump.  
No. P. 23. 3"x2"x3" Fairbanks Morse Duplex Steam Pump, 1 1/2" suction, 1" discharge.  
No. P. O. 35. 3"x2"x3" No. 3 Ohio Duplex Pumps, 1 1/2" suction 1" discharge.  
No. P. O. 161. 3"x2"x4" Fairbanks Morse Duplex Steam Pump, 1 1/2" suction, 1" discharge.  
No. P. O. 209. 3"x2"x4" Worthington Duplex Steam Pump with receiver, 1 1/2" suction, 1" discharge.  
No. P. 44. 3 1/2"x2"x3" Laidlow & Gordon Duplex Steam Pump.  
No. P. O. 27. 4 1/2"x2 1/2"x4" Worthington Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
No. P. O. 116. 4 1/2"x2 1/2"x4" Smith Vail Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
No. P. O. 139. 4 1/2"x2 1/2"x4" Worthington Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
No. P. O. 77. 4 1/2"x2 1/2"x4" Gardener Duplex Pump, 1 1/2" suction 1 1/2" discharge.  
No. P. O. 41. 4"x4"x6" American Single Acting Vacuum Pump, 2" suction, 2" discharge.  
No. P. O. 203. 4 1/2"x2 1/2"x4" Smith Vail Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
No. P. O. 206. 4 1/2"x2 1/2"x4" Worthington Duplex Steam Pumps, 1 1/2" suction, 1 1/2" discharge.  
No. P. O. 209. No. 3 Blake Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
No. P. O. 205. 4 1/2"x2 1/2"x4" Dean Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
No. P. 506. 4 1/2"x2 1/2"x4" Smith Vail Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
No. P. 518. 4 1/2"x2 1/2"x4" Dean Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
No. P. O. 48. 4 1/2"x2 1/2"x4" Dean Duplex Pumps, 2" suction, 1 1/2" discharge.  
No. P. 32. 4 1/2"x2 1/2"x4" Fairbanks Morse Duplex Steam Pump, 1 1/2" suction, 1 1/2" discharge.  
No. P. N. 502. 4 1/2"x2 1/2"x4" Dean Duplex Steam Pumps, 2" suction, 1 1/2" discharge.



N. J. P. 49. 4 1/2"x2 1/2"x5" Duplex Steam Pump.  
 No. P. O. 22. 5"x3 1/2"x6" Knowles Duplex Pumps, 2", suction discharge 1 1/2".  
 No. P. O. 121. 5 1/2"x3 1/2"x5" Tappen Duplex Steam Pump, 3" suction, 2" discharge.  
 No. P. O. 106. 5 1/2"x3 1/2"x5" Dean Duplex Pumps, suction 2 1/2", discharge 2".  
 No. P. O. 138. 5 1/2"x3 1/2"x5" Worthington Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
 No. P. O. 113. 5 1/2"x3 1/2"x5" Worthington Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
 No. P. 29. 5 1/2"x3 1/2"x5" Dean Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
 No. P. 67. 5 1/2"x3 1/2"x5" Cook & Chick Duplex Steam Pump.  
 No. P. O. 202. 5 1/2"x3 1/2"x5" Worthington Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
 No. P. 504. 5 1/2"x3 1/2"x5" Dean Duplex Steam Pump, 2" suction, 1 1/2" discharge. Outside packed plunger pattern.  
 No. P. 35. 5 1/2"x3 1/2"x5" Worthington Duplex Steam Pump.  
 No. P. O. 214. 5 1/2"x3 1/2"x6" Laidlaw Dunn Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
 No. P. 550. 6"x2"x6" Dean Duplex Steam Pump, 1 1/2" suction, 2" discharge.  
 No. P. O. 119. 6"x2"x6" Worthington Duplex Steam Pump, 1 1/2" suction, 1" discharge.  
 No. P. 522. 6"x3 1/2"x6" Worthington Duplex Steam Pump, 2" suction, 1 1/2" discharge. Outside packed plunger pattern.  
 No. P. O. 177. 6"x3 1/2"x8" Marsh Steam Pump, Brass Fitted, 2 1/2" Suction, 2" discharge.  
 No. P. O. 178. 6"x4"x6" Worthington Steam Pump Duplex, 2 1/2" Suction, 2" Discharge.  
 No. P. 64. 6"x4"x6" Furness Duplex Steam Pump.  
 No. P. O. 208. 6"x4"x6" Laidlaw & Dunn Duplex Steam Pump, 3" suction, 2" discharge.  
 No. P. O. 208 1/2. 6"x4"x6" Worthington Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
 No. P. O. 140. 6"x4"x6" Fairbanks, Morse Duplex Steam Pump, 3" suction, 2" discharge.  
 No. P. O. 163. 6"x4"x6" Haynes & Prentiss Duplex Steam Pump, 2" suction, 1 1/2" discharge.  
 No. P. N. 501. 6"x4"x6" Dean Duplex Pumps, Steam, 3" suction, 2" discharge.  
 No. P. O. 131. 6"x4"x6" Worthington Duplex Steam Pump, 3" suction, 2" discharge.  
 No. P. O. 160. 6"x4"x6" Dean Duplex Steam Pump, 4" suction, 3" discharge.  
 No. P. O. 45. 6"x4"x6" Worthington Duplex Pumps, suction 3", discharge 2".  
 No. P. 26. 6"x4"x6" Epping Carpenter Duplex Steam Pump, 3" suction, 2" discharge.  
 No. P. 6. 6"x4"x6" Barr Duplex Steam Pump, suction 2 1/2", discharge 2".  
 No. P. O. 186. 6"x4"x6" Snow Duplex Steam Pump, 3" suction, discharge 2". Outside packed plunger pattern.  
 No. P. O. 103. 6"x4"x6" Dean Duplex Pumps, suction 2 1/2", discharge 2".  
 No. P. 506. 6"x4"x6" Dean Duplex Steam Pump, 3" suction, 2" discharge.  
 No. P. O. 66. 6"x4"x6" Worthington Duplex Pumps, suction 3", discharge 2".  
 No. P. O. 80. 6"x4"x6" Dean Duplex Pumps, suction 2 1/2", discharge 2".  
 No. P. O. 39. 6"x4"x6" Furness Bros. Duplex Pumps, suction 2 1/2", discharge 2".  
 No. P. 31. 6"x4"x6" Worthington Duplex Steam Pump, 2 1/2" suction, 1 1/2" discharge.  
 No. P. 33. 7"x2"x3"x6" Worthington Duplex Steam Pump, 4" suction, 3" discharge.  
 No. P. O. 132. 8"x12"x12" Smith-Vaile Duplex Pumps, 10" suction, 8" discharge.  
 No. P. O. 85. 10"x6"x13" Cameron No. 1 Pumps, suction 6", discharge 5".  
 No. P. 69. 12"x7"x10" Dean Duplex Pump.  
 No. P. 68. 16"x12"x10" Worthington Duplex Pump.  
 No. P. 13. Steam 20", water 20", stroke 12", Wheeler & Tappen Duplex Pumps, suction 8", discharge 6".

#### SINGLE ACTING STEAM PUMPS

No. P. 19. Union Steam Pump Co's Single Acting Steam Pump, 1 1/2" suction, 1 1/2" discharge.  
 No. P. O. 127. Wheeler & Tappen Single Acting Steam Pump, 2" suction, 1 1/2" discharge.  
 No. P. 41. 3"x5"x7" Wells Single Acting Steam Pump.  
 No. P. 28. 3 1/2"x2"x5" Marsh Type Single Acting Steam Pump.  
 No. P. 3. Knowles No. 3 Single Acting Pump, steam 3", water 2 1/2", stroke 7", suction 2", discharge 1 1/2".  
 No. P. O. 184. No. 4 Blake Single Acting Steam Pump.  
 No. P. 503. No. 4 Dean Single Acting Steam Pump, 2" suction, 1 1/2" discharge.  
 No. P. O. 83. 4"x4"x4" Moore Single Acting Vacuum.  
 No. P. 7. Hooker No. 5 Single Acting Pump, steam 4", water 3", stroke 7", suction 2", discharge 1 1/2".  
 No. P. 74. 4 1/2"x2 1/2"x4" Dean Duplex Steam Pump.  
 No. P. 78. 4 1/2"x2 1/2"x6" Hooker Single Acting Pump.

No. P. 517. 5"x3"x4" Union Single Acting Steam Pump, 1 1/2" suction, 1" discharge.  
 No. P. 75. 5"x3"x5" Blake Single Acting Steam Pump.  
 No. P. O. 42. 5"x3"x6" American Single Acting Pump, suction 2", 1 1/2" discharge.  
 No. P. O. 89. 5"x3"x7" Dean No. 3 Single Acting Pump, suction 2", discharge 1 1/2".  
 No. P. 13. 5 1/2"x3 1/2"x6" Tappen Single Acting Steam Pump, 2" suction, 1 1/2" discharge.  
 No. P. O. 551. 5 1/2"x4"x9" No. 4 Cook & Knick Single Acting Steam Pump, 2" suction, 1 1/2" discharge.  
 No. P. 512. 6"x4"x6" Hooker Single Acting Steam Pump, 1" suction, 1" discharge.  
 No. P. O. 14. 5 1/2"x3 1/2"x6" No. 4 Furness Bros. Single Acting Pumps, suction 2", discharge 1 1/2".  
 No. P. O. 107. 5 1/2"x3 1/2"x7" Blake Single Acting Pumps, suction 2", discharge 1 1/2".  
 No. P. O. 108. 5 1/2"x3 1/2"x5" Snow Duplex, suction 2", discharge 1 1/2".  
 No. P. O. 36. 6"x3 1/2"x8" No. 7 Marsh Single Acting, suction 2 1/2", discharge 2".  
 No. P. 515. 6"x8"x7" Warehouse Single Acting Steam Pump, 3" suction, 2 1/2" discharge.  
 No. P. O. 110. 10"x5 1/2"x12" Marsh Single Acting, suction 3", 2 1/2" discharge.  
 No. P. O. 109. 10"x5 1/2"x12" Marsh Single Acting Pump.  
 No. P. 21. 10"x12"x12" Dean Single Acting Pump, 6" suction, 5" discharge.

#### OTHER PUMPS

No. P. 76. No. 1 1/2" Gould Centrifugal Pump.  
 No. P. 5. No. 6" Gould Centrifugal Pump, 8" suction, 6" discharge, drive pulley 14"x12".  
 No. P. O. 69. Centrifugal Johnson Pump, 2" suction, 1 1/2" discharge, belt driven.  
 No. P. 36. Centrifugal Pump, suction 2 1/2", discharge 2".  
 No. P. O. 191. Centrifugal Pump, 4" suction, 3" discharge, belt driven.  
 No. P. O. 6. Taber Pump Co., Centrifugal Pump, suction 4", discharge 3".  
 No. P. 701. 15" T. K., Centrifugal Pump, double suction, belt driven.  
 No. P. O. E. Herberkamp Centrifugal Pump, steam 3", water 2 1/2", stroke 7", suction 2", discharge 1 1/2".  
 No. P. 53. No. 5 Morris Centrifugal Pump, belt driven.  
 No. P. 5. Knowles No. 4 Single Acting Pump, discharge 2", suction 4".  
 No. P. O. 147. Dayton Centrifugal Pump, 5" suction, 4" discharge, belt driven.  
 No. P. O. 10. Belt driven, Centrifugal Pump 7" suction, 5 1/2" discharge, 18"x12" drive pulley.  
 No. P. 12. No. 8 Morris Centrifugal Pump, direct connected to 8"x12" vertical engine.  
 No. P. O. 168. Southwark Foundry & Machine Co., Centrifugal Pumps, 2 1/2" suction, 18"x18", double discharge.  
 No. P. O. 212. No. 15 Morris Centrifugal Pump, direct connected to 10"x9", vertical duplex engine.  
 No. M. 541. Direct connected to 3"x5" Vertical Machine, mounted on same base. suction 4", discharge 3".  
 No. P. 154. Channon Diaphragm Pump, 3" suction.  
 No. M. 520. Wall Hand Pump, 1 1/2" suction, 1 1/2" discharge.  
 No. M. 519. Hand Pump, 1 1/2" suction, 1 1/2" discharge.  
 No. P. 52. No. 4"x6" Gould Belt Driven Triplex Pump.  
 No. 501 P. No. 2 Deming Rotary, 1" suction, 1 1/2" discharge. Tight and loose pulleys 7"x2 1/2".  
 No. P. 516. Union Steam Pump Co's Vacuum Pump, 4"x4"x4".  
 No. P. 508. Gould Rotary Pump, 1 1/2" suction, 1 1/2" discharge.  
 No. P. 502. No. 2 Deming Pump, 2" suction, 2" discharge, belt driven. Tight and loose pulleys 11"x3".

#### HOISTING ENGINES AND BOILERS

Absolutely the finest manufactured. Our stock of these is always changing and therefore solicit your inquiries.  
 No. S. E. 8. 6"x8" Marine Iron Works. Double Cylinder, Single Drum Hoisting Engine.  
 No. E. O. 306. 12"x15" Ledgerwood Double Cylinder Double Tandem Drum Link Motion Hoisting Engine.

#### BLOWERS, FANS AND EXHAUSTERS

We have at all times an immense stock of blowers and fans of the very best make. They are practically as good as new, and our prices are below the cost of manufacture.  
 No. M. 537. No. 00 Sturtevant Blower, 5" suction, 4" discharge.  
 No. M. 110. No. 0 Buffalo Forge Co. Blower.  
 No. M. 533. No. 1 Cupola Blower, 5" outlet.  
 No. M. 107. No. 1 Garden City Blower.  
 No. M. 505. 18" Blower, 6" square outlet, drive pulley 34"x34".  
 No. M. O. 80. No. 2 Buffalo Blower.  
 No. M. O. 171. 24" Window Ventilating Fan.

No. M. 66. Buffalo Forge No. 4, 24" belt driven Blower.  
 No. M. O. 136. 27" Buffalo Forge Co. Blower.  
 No. M. O. 293. 30" Boston Blower with 2 drive pulleys 4"x34".  
 No. M. O. 168. 32" Window Ventilating Fans.  
 No. M. O. 170. 36" Window Ventilating Fans.  
 No. M. O. 167. No. 3 Garden City Blower.  
 No. M. 111. No. 4 Sturtevant Blower.  
 No. M. O. 193. 30" Garden City Exhauster, outlet 10", inlet 10".  
 No. M. O. 93. 30" Sturtevant Blower.  
 No. M. O. 176. 40" Sturtevant Blower.  
 No. M. 517. Window Ventilating Fan, 40" diameter, belt driven, 6 blades, wheel 12"x8".  
 No. M. 158. No. 4 Beekman Exhaust Fan.  
 No. M. 524. Steel Fan, belt driven, 40" diameter, 22"x22" outlet, 20" inlet, belt pulley 10"x7".  
 No. K. 101. 40" Garden City Exhaust Fan.  
 No. M. O. 172. 42" Gardner Blower, outlet 15", inlet 17".  
 No. M. O. 216. Wm. Bayley & Sons 44" Blower, 12" wide. Belt Driven, Drive pulley 8"x7".  
 No. M. O. 185. 48" Hess & Warming Blower, outlet 15", inlet 15".  
 No. M. O. 184. 48" Sturtevant Blowers, outlet 12", inlet 16".  
 No. M. O. 180. 48" Garden City Exhauster, outlet 15", inlet 15".  
 No. M. O. 96. 48" Window Ventilating Fan.  
 No. M. O. 18. 50" Window Ventilating Fan.  
 No. M. O. 169. 54" Double Exhauster, outlet 24", inlet 12".  
 No. M. O. 33. 54" Double Exhaust Fan, outlet 18", inlet 18".  
 No. M. 102. 55" Sturtevant Exhaust Fan.  
 No. M. O. 181. 56" Sturtevant Blower, outlet 18", inlet 18".  
 No. M. O. 179. 56" Buffalo Forge Co. Exhauster, outlet 18", inlet 18".  
 No. M. O. 178. No. 5 Sturtevant Blower.  
 No. M. 108. No. 5 Buffalo Forge Blower.  
 No. M. O. 175. No. 6 Sturtevant Blower.  
 No. M. O. 174. No. 6 Huyett & Smith Blower, outlet 10", inlet 18".  
 No. M. 549. 60" Garden City Exhaust Fan, outlet 28"x21", inlet 30".  
 No. M. O. 182. 60" Garden City Exhauster, outlet 24", inlet 24".  
 No. M. O. 84. 100" Sturtevant Fan.

#### IRON WORKING MACHINERY

Look at this list and if you do not find what you want, advise us. We can most likely give you just what you are looking for and save you money.  
 No. E. P. 1. 30"x3" Putnam Screw Cutting Lathe.  
 No. E. P. 14"x8" Screw Cutting Engine Lathe.  
 No. M. 133. 40"x26" New Haven Lathe.  
 No. M. 140. New Haven Drill Press, 16" swing.  
 No. E. P. 4. 20" Barnes Vertical Drill Press.  
 No. M. 122. Barnes Drill Press, swing 22", table 19".  
 No. E. P. 3. 26" C. L. Rice Vertical Drill Press.  
 No. E. P. 5. Doty Mfg. Co. Power Driven Punch and Shear.  
 No. E. P. 6. No. 3 National Bolt Cutter.  
 No. E. P. 10. 30"x4" Rest Iron Foundry Rattlers.  
 No. E. P. 11. Single Head Horizontal Boring Machine Wood Frame.  
 No. E. P. 12. Wood Frame Dado Head Machine.  
 No. E. 135. Bevel Gear Shapers Mfgd. by Robt. Weatherill.  
 No. M. 113. Triple Geared Punch Press.  
 No. M. 53. 10" Shaper, Mfgd. by L. S. Graves.  
 No. M. 62. 2 Spindle Buss Machy. Co., shaper 3"x4 1/2".  
 No. M. 89. 10", W. F. & J. Barnes Friction Drill.

#### WOOD WORKING MACHINERY

Our stock of Woodworking Machinery is too large to give complete, so do not hesitate to ask us for what you need. The following list will give you some idea of our variety in this line. Our prices are right.  
 No. M. O. 201. Richmond Saw Mill, 20,000 cap, practically new, complete.  
 No. M. O. 186. Berlin Sander, 36" double roll, power driven.  
 No. M. 60. Double Cut-off Saw, Double table 24"x50" and 4 saws, diam. 11".  
 No. E. P. 806. 44" McDonough Band Resaw, 3" saws.  
 No. M. 63. 36" Band Saw.  
 No. A. 140. 36" Single Roll Berlin Sander.  
 No. M. 142. Saw Table with set of 3 Circular Saws.  
 No. E. P. 7. 8" McNish & Butler Sticker.  
 No. E. P. 8. 24" J. M. & C. B. Farrar Wood Planer.  
 No. E. P. 9. 3"x6" Wood Frame Saw Table.  
**WORM GEAR BELT DRIVEN FREIGHT ELEVATORS**  
 The prices that we will quote on the following Elevators will certainly interest you.  
 No. M. 87. Hand Power Elevator, capacity 1000 lbs.



**No. M. 185.** Hand Power Mitchell Elevator, 1500 lbs. capacity.  
**No. M. 48.** Eaton & Prince Worm Gear Elevator, 1000 lbs. capacity.  
**No. M. 100.** 1000 lbs. capacity, Worm Gear Elevator.  
**No. M. 88.** Reedy Worm Gear Elevator.  
**No. M. 70.** 1500 lbs. capacity Eaton & Prince Worm Gear Elevator.  
**No. M. 116.** 2000 lbs. capacity Elithorpe Worm Gear Elevator.  
**No. M. 115.** 2000 lbs. capacity Reedy Electric Elevator.  
**No. M. 141.** 2000 lbs. Mitchell Worm Gear Elevator.  
**No. M. 139.** 2000 lbs. capacity Reedy Hand Power Elevator.  
**No. M. 159.** 2000 lbs. capacity Reedy Elevator.  
**No. M. 160.** Eaton & Prince Worm Gear Elevator, 2000 lbs. capacity.  
**No. M. O. 197.** Reedy Electric Elevator, 2,000 lbs.  
**No. M. O. 145.** Worm Gear Belt Driven Elevator, capacity 3,000 lbs.  
**No. M. O. 137.** Mitchell Elevator, Worm Gear Belt Driven, 3,000 lbs.  
**No. M. 128.** 3,000 lbs. capacity, Eaton & Prince Worm Gear Elevator.  
**No. M. 85.** 3,000 lbs. Worm Gear Elevator, Mfgd. by Elithorpe Co.  
**No. M. O. 101.** J. W. Reedy Elevator, Gear Belt Driven, 3,000 to 4,000 lbs.  
**No. M. O. 117.** Worm Gear Belt Driven Elevator, capacity 3,000 to 4,000 lbs.  
**No. M. O. 147.** Worm Gear Belt Driven Elevator, 4,000 lbs. capacity.  
**No. M. 554.** Worm Gear Elevators, Mfgd. by Elithorpe Air Brake Co., 4,000 lbs. capacity, 36"x36"x12" thick.  
**No. M. 560.** Mitchell Worm Gear Elevator, 4,000 lbs. capacity.

#### STEAM AND BELT DRIVEN AIR COMPRESSORS

We carry only the finest makes in this line and can quote you low prices on them.  
**No. M. O. 36.** Marsh Air Compressor, 5½"x6"x6", steam driven.  
**No. M. O. 502.** Air Compressor, 6"x6"x6", steam driven.  
**No. M. O. 203.** Hughes Air Compressor, steam driven.  
**No. M. 161.** 8"x12" Air Compressor.  
**No. M. 117.** 7"x9" Double Cylinder Ingersoll Rand Air Compressor.  
**No. M. 119.** 7"x10" Clayton Air Compressor.  
**No. M. 163.** 8"x8" Air Compressor, Water Cylinder 5"x8".  
**No. M. 513.** 8"x8" Platt Iron Works Belt Driven Air Compressor, Water Jacketed, Belt Wheel 14" diameter, 6" base, 2½" air outlet, 2½" air inlet. Capacity 69 cubic feet per minute.  
**No. M. O. 103.** Rand Drill, Duplex Steam, Low Duty, Water Jacketed, 8½"x12", air 12"x12", diam. of fly wheel 60"x5", 7½" thick.

#### MISCELLANEOUS MACHINERY

The following list of miscellaneous machinery will give you some idea of the variety and extent of our stock. Our prices are rock bottom. This stock is changing every day and we solicit your inquiries upon anything in the machinery line.  
**No. R. P. 19.** 36" Narrow Gauge Baldwin Locomotives.  
**No. M. 150.** 5 ton Locomotive, Crane Cylinder 7"x9". Length of boom 25". Vertical Tubular Boiler, 42"x7".  
**No. M. 560.** No. 8 Signal & Keeler Pipe Threading Machine, takes from 2½" to 8".  
**No. M. 539.** Fisher Air Compressors, Cylinder and Valve.  
**No. M. 536.** No. 3 Worthington Emery Wheel, Stand, drive pulley 4"x4".  
**No. M. 534.** No. 1, J. J. Rose Punch and Shear, 3" Knives to punch 4" holes.  
**No. M. 530.** No. 2 Gargrave Shear.  
**No. M. 522.** Emery Grinder, mounted on wooden base spindle, 24" long, 14"x14" wheels.  
**No. M. 518.** Curtiss Co. Pipe Machine, 12"-24" to 12".  
**No. M. 516.** No. 4 Curtiss Pipe Threading Machine, takes from 1" to 4".  
**No. M. 515.** No. 1, Eaton Cole & Burnham Pipe Machine, 14" to 2".  
**No. M. 514.** Chicago Belt Driven Steel Burr Grinding Mill Pulley, 8"x6".  
**No. M. 511.** 6" Vertical Air Hoist, 4' long.  
**No. M. 510.** 10" Vertical Air Hoist, 4' long.  
**No. M. 509.** Ingersoll-Sargent Steam or Air Driven Punches on Wheels.  
**No. M. O. 220.** No. 7 Detroit Emery Wheel, stand spindle 23-16", diameter 5' long. Fitted with 3-step cone pulleys, 7", 8" and 10" diameter, all 5" face.  
**No. M. O. 148-150.** Rock and Prospecting Drills, 4 Rock Drills, Ingersoll, 31".  
**No. M. 99.** No. 1 P. H. & F. M. Roots Co. Rotary Blower.  
**No. M. 98.** No. 1 P. H. & F. M. Roots Co. Rotary Blower.

**No. M. 90.** No. 3 P. H. & F. M. Roots Co. Rotary Blower.  
**No. M. 73.** 24"x48" Vertical Tubular Boiler with a 3"x5" upright combined.  
**No. M. O. 69.** No. 7 Jarecki Pipe Threading Machine, takes ¾" to 2".  
**No. M. O. 23.** Ingersoll Drills, 31".  
**No. M. 20.** Fox Machine Co. Pipe Cutter, length of frame 24".  
**No. M. 2.** 26" Smith Vent Fan.  
**No. S. M. 43.** Emery Standards.

#### BOILERS

Look at this list of Boilers carefully. Pick out the one you want and ask us for price on same. That is all. Our price will be so low that you will order it at once from us. Our stock is so complete that you must find just what you are looking for in this list. Remember that we are getting more boilers in every day. If you don't find exactly what you want let us know.  
**No. B. 224.** 30"x6' Horizontal Tubular Boiler.  
**No. B. 229.** 30"x9' Horizontal Tubular Boiler.  
**No. B. 207.** 36"x6' Vertical Tubular Boiler.  
**No. B. 218.** 36"x8' Horizontal Tubular Boiler.  
**No. B. 189.** 36"x10' Return Flue Firebox Boiler.  
**No. B. 212.** 36"x10' Horizontal Tubular Boiler.  
**No. B. 228.** 36"x9' Horizontal Tubular Boiler.  
**No. B. 22.** 36"x10' Hot Water Boiler, 303" flues.  
**No. B. 190.** 42"x8' Horizontal Tubular Boiler.  
**No. B. 133.** 42"x12' Horizontal Tubular Boiler.  
**No. 92.** 42"x12' Horizontal Tubular Boiler, standard dome, manhole above flues and hand hole below, 26 4" flues. Good for 90 to 100 lbs. pressure, 30 H. P.  
**No. 53.** 42"x12' Atlas Horizontal Tubular Boiler. Standard dome, manhole above flues, hand hold below flues, 40 3" flues. Good for 80 lbs. pressure, 35 H. P.  
**No. 31.** 42"x14' Horizontal Tubular Boiler, domeless type, 32 3½" flues, good for 95 to 100 lbs. pressure, 40 H. P.  
**No. 28.** 44"x12' Low Pressure Horizontal Tubular Boiler, standard dome, 34 3½" flues, 35 H. P.  
**No. 101.** 48"x12' Atlas Horizontal Tubular Boiler with independent screw dome, manhole above and below flues, 42 3" flues. Good for 95 to 100 lbs. pressure, 40 H. P.  
**No. 55.** 48"x14' Horizontal Tubular Boiler, standard dome, manhole above flues, hand hole below flues, 39 3½" flues. Good for 95 to 100 lbs. pressure, 45 H. P.  
**No. 33.** 48"x14' Horizontal Tubular Boiler, triple riveted, butt strapped, domeless type, 26 4" flues, Eclipse manhole above flues in shell and below flues in head, good for 125 lbs. pressure, 45 H. P.  
**No. 35.** 48"x16' Horizontal Tubular Boiler, standard dome, 36 4" flues, manhole above and below flues, good for 95 to 100 lbs. pressure, 55 H. P.  
**No. 20.** 48"x16' Horizontal Tubular Boiler, 28 4" flues, standard dome, double riveted, good for 95 to 100 lbs. pressure, 55 H. P.  
**No. B. 124.** 54"x14' Double Riveted Horizontal Tubular Boiler, 48 3½" tubes 5-16" shell, 7-16" heads, 95 to 100 lbs. pressure. H. P. 60. 14½"x9" manhole in each head. 30"x25" dome.  
**No. B. 191.** 54"x14' Horizontal Tubular Boiler.  
**No. 96.** 54"x16' Horizontal Tubular Boiler, standard dome, 40 4" flues, manhole above and below flues. Good for 95 to 100 lbs. pressure, 70 H. P.  
**No. 87.** 54"x16' Horizontal Tubular Boiler, standard dome, 36 4" flues, manhole above and below flues. Good for from 90 to 100 lbs. pressure, 70 H. P.  
**No. 64.** 54"x18' Horizontal Tubular Boiler, standard dome, 38 4" flues. Good for 90 to 100 lbs. pressure, 70 H. P.  
**No. B. 128.** 60"x16' Horizontal Tubular Boiler, 46" Tubes. Built in 1 course. Double Riveted 5-16" shell, ¾" heads, 80 H. P., 95 lbs. pressure.  
**No. B. 145.** 60"x16' Single Sheet Horizontal Tubular Boiler, standard dome, 18 6" flues, manhole above and below flues. Good for 90 to 100 lbs. pressure, 80 H. P.  
**No. 13.** 60"x16' Horizontal Tubular Boiler, standard dome, 52 4" flues, manhole above flues in shell, hand hole below flues in head, double riveted, built in 2 courses. Good for 90 to 100 lbs. pressure, 80 H. P.  
**No. 37.** 60"x16' Horizontal Tubular Boiler, single sheet, high steam drum on top, 46 4" flues. Manhole above and below flues. Good for 90 to 100 lbs. pressure, 80 H. P.  
**No. 95.** 60"x16' Horizontal Tubular Boiler, standard dome, 48 4" flues, manhole above and below flues, hanging type. Good for 90 to 100 lbs. pressure, 80 H. P.  
**No. 51.** 60"x16' Horizontal Tubular Boiler, domeless type, Eclipse manhole above and below flues, 54 4" flues. Good for 100 lbs. pressure, 80 H. P.  
**No. 38.** 60"x16' Horizontal Tubular Boiler, standard dome, 44 4" flues, manhole above and below flues. Good for 90 to 100 lbs. pressure, 80 H. P.

**No. 83.** 60"x16' Horizontal Tubular Boiler, standard dome, 44 4" flues, manhole above and below flues. Good for 95 to 100 lbs. pressure, 80 H. P.  
**No. 79.** 60"x16' Horizontal Tubular Boiler, standard dome, 50 4" flues. Good for 90 to 100 lbs. pressure, 80 H. P.  
**No. B. 135.** 60"x16' Horizontal Tubular Boiler, Good for 95 lbs. pressure.  
**No. 17.** 60"x16' Horizontal Tubular Boiler, standard dome, 52 4" flues, manhole above flues in shell, hand hole below flues in head, double riveted, built in 2 courses. Good for 90 to 100 lbs. pressure, 80 H. P.  
**No. B. 201.** 60"x18' Horizontal Tubular Boiler.  
**No. B. 192.** 60"x18' Horizontal Tubular Boiler.  
**No. 39.** 64"x17' Horizontal Tubular Boiler, hanging type, large steam drum on top, 54 4" flues, manhole above flues, hand hole below flues. Good for 90 to 100 lbs. pressure, 100 H. P.  
**No. 76.** 66"x14' Horizontal Tubular Boiler, manhole above and below flues, 54 4" flues. Good for 85 lbs. pressure, 90 H. P.  
**No. 50.** 66"x16' Horizontal Tubular Boiler, standard dome, Manhole above and below flues, 70 lbs. pressure, 54 4" flues, 100 H. P.  
**No. 50.** 66"x16' Horizontal Tubular Boiler, standard dome, 54 4" flues, manhole above and below flues, good for 70 lbs. pressure, 100 H. P.  
**No. 41.** 66"x16' Horizontal Tubular Boiler, domeless type, 54 4" flues, manhole above and below flues. Good for 70 lbs. pressure, 100 H. P.  
**No. 81.** 72"x20' Horizontal Tubular Boiler, triple riveted, lap joint, domeless type, 7-16" shell, ¾" heads, 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues hanging type. Good for 115 lbs. pressure, 160 H. P.  
**No. 57.** 72"x20' Horizontal Tubular Boiler, triple riveted, lap joint, domeless type, shell 7-16" heads ¾", 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, hanging type. Good for 115 lbs. pressure, 160 H. P.  
**No. 34.** 72"x20' Horizontal Tubular Boiler, quadruple riveted with Jackson joint on the inside, domeless type, ¾" shell, 9-16" head, 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, for 110 lbs pressure, hanging type. 160 H. P.  
**No. 12.** 72"x20' Horizontal Tubular Boiler, quadruple riveted with Jackson joint on the inside, domeless type, shell ¾", heads 9-16", 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, lug type. Good for 100 lbs. pressure, 160 H. P.  
**No. 114.** 72"x20' Horizontal Tubular Domeless Type Boiler, quadruple riveted with Jackson joint on the inside. Lug type shell ¾", heads 9-16", 16 McGregor braces in each head. Good for 110 lbs. pressure. Eclipse manhole on top of shell and below line of flues, 50 4½" flues, 160 H. P.  
**No. 11.** 72"x20' Horizontal Tubular Boiler, domeless type, quadruple riveted with Jackson joint on the inside, shell ¾", heads 9-16", 16 McGregor braces in each head, 50 4½" flues, Eclipse manhole on top of shell and below line of flues, hanging type. Good for 110 lbs. pressure, 160 H. P.  
**No. P. H. 2.** 72"x20" Triple Riveted, 63 4" flues, 160 H. P., ¾" shell, ¾" head, 100 lbs. steam pressure. Equipped with Murphy stokers and grates, also complete coal and ash handling apparatus.  
**No. P. H. 1.** Triple Riveted 78"x20' Horizontal Tubular Boilers, ¾" shell, ¾" head, 125 lbs. steam pressure, 86 4" flues, 200 H. P. Equipped with Murphy stokers and grate, also complete coal and ash handling apparatus.

#### FIREBOX BOILERS

**No. B. 223.** 35"x10' 4" Fire Box Boiler.  
**No. 25.** 36"x10' Low Pressure Fire Box Boiler, standard dome, 28 3" flues, 25 H. P.  
**No. B. 219.** 36"x10' 6" Fire Box Boiler.  
**No. B. 151.** 36"x12' Firebox Boiler.  
**No. B. 169.** 42"x7" Firebox Boiler.  
**No. B. 209.** 42"x8' 3" Firebox Boiler.  
**No. B. 221.** 42"x8' 6" Firebox Boiler.  
**No. 24.** 42"x10' Kewanee Firebox Boiler, 48 2½" flues, 35 H. P.  
**No. 73.** 42"x12' Firebox Boiler, locomotive type, standard dome, 34 3" flues, 40 H. P.  
**No. 29.** 42"x14' Low Pressure Horizontal Tubular Boiler, standard dome, 38 3" flues, 40 H. P.  
**No. 19.** 42"x16' Firebox Boiler, locomotive type, standard dome, 47 3" flues, good for 75 lbs. pressure, 40 H. P.  
**No. 2.** 48"x11' Firebox Boilers, locomotive type, domeless, double riveted, 32 3½" flues. Good for 95 lbs. pressure, 45 H. P.  
**No. 34.** 48"x12' Low Pressure Firebox Boiler, locomotive type, standard dome, 34 3½" flues, 45 H. P.  
**No. 68.** 48"x12' Kewanee Low Pressure Firebox Boiler, 42 3½" flues, 45 H. P.  
**No. 67.** 48"x13' Firebox Boiler, locomotive type, standard dome, 46 3" flues, Good for 85 lbs. pressure, 40 H. P.



No. 109. 48"x13' 6" Kewanee Low Pressure Firebox Boiler, domeless type, 48 3/4" flues. 50 H. P.

No. 26. 48"x21" Locomotive Type Firebox Boiler, 2 1/4" flues. Firebox is round, double riveted, good for 90 lbs. pressure. 60 H. P.

No. B. 196. 50"x11' 8" Firebox Boiler.

No. B. 199. 50"x8" Firebox Boiler.

No. 15. Firebox Boiler, locomotive type, 56" diameter x 18' 6" long, 8" high, 64 3/4" flues, 3" shell, 7-16" head, Firebox is 9" long and 6' high. Good for 95 lbs. pressure. 80 H. P.

No. 16. Firebox Boiler, locomotive type, 56" diameter x 18' 6" long, 8" high, 64 3/4" flues, 3" shell, 7-16" head, Firebox is 9" long and 6' high. Good for 95 lbs. pressure. 80 H. P.

#### VERTICAL TUBULAR BOILERS

No. B. 214. 10"x44" Vertical Tubular Boiler.

No. B. 227. 18"x43" Vertical Tubular Boiler.

No. B. 126. 20"x36" Vertical Tubular Boiler.

No. B. 231. 27"x5' High Pressure Vertical Tubular Boiler.

No. C. 226. 30"x6" Vertical Tubular Boiler.

No. 5. 36"x7" Full Length Vertical Boiler, 70 2" flues. Good for 80 lb. pressure. 14 H. P.

No. B. 233. 36"x8" Vertical High Pressure Boiler.

No. B. 220. 42"x7" Vertical Tubular Boiler.

No. B. 185. 42"x12" Horizontal Tubular Boiler.

#### WATER TUBE BOILERS

No. 46. 200 H. P. Heine Water Tube Boiler, double drum on top, 113 3/4" flues, good for 125 lb. pressure.

No. 45. 125 H. P. Heine Water Tube Boiler, single drum on top. Good for 90 lbs. pressure.

#### OTHER BOILERS

No. B. 210. 30"x10' Horse Shoe Boiler.

No. B. 216. 42"x10' Cox Patented Tubular Boiler.

No. 13. 70 H. P. Erie City Economic. Good for 95 lbs. pressure.

No. 14. 30"x6"x42" High Horse Shoe Boiler, for low pressure, 15 3/4" flues.

No. 119. 36"x14" T. M. Nagle Water Bottom Firebox Boiler, 38 2 1/2" flues.

No. 69. 42"x15"x6" T. M. Nagle Water Bottom Firebox Boiler on skids, standard dome, 42 3/4" flues.

No. B. 164. 36"x48" Marine Boiler.

No. B. 187. 50"x7" Marine Boiler.

#### FEED WATER HEATERS

No. H. 114. 15"x4' Open Type Stillwell Bierce Heater.

No. H. 7. 35 to 40 H. P. Berryman Heater, diam. 18", length 56", brass tubes.

No. 4. 75 H. P. Baragwanath Heater, 18" diameter, 6" high, 4" exhaust openings, 1 1/2" feed water connections.

No. 6. 65 H. P. Baragwanath Heater, 20" diameter, 5" high, 4" exhaust openings, 1 1/2" feed water openings, Brass tubes.

No. 2. 80 H. P. Berryman Heater, 20" diameter, 7" high, 5" exhaust inlet and outlet, 2" feed water connector, brass tubes.

No. 9. 100 H. P. Berryman Heater, 20" diameter, 8" high, brass tubes, 6" exhaust openings, 1 1/2" feed water openings.

No. 19. 65 H. P. Baragwanath Heater, 20" diameter, 8" high, 4" exhaust openings, 1 1/2" feed water opening.

No. H. 12. 23"x5' Heater.

No. 12. 85 H. P. Baragwanath Horizontal Heater and Purifier, 24" wide, 7" long, 4" high, brass tubes, 6" exhaust openings, 2" feed water opening.

No. H. 13. 30"x8" Baragwanath Heater.

No. 13. 125 H. P. Baragwanath Heater, 36" diameter, 6" high, iron tubes, 7" exhaust openings, 2 1/2" feed water openings.

No. 5. 120 H. P. Reynolds Heater, 24" diameter, 7" high, 8" exhaust openings, 1 1/2" feed water opening. Good for 90 lbs. pressure.

No. H. 6. 150 H. P. Kroeschells & Bourgeois Heater, brass tubes.

No. 8. 150 H. P. Reynolds Heater, 30" diameter, 8" high, 8" exhaust openings, 1 1/2" feed water opening. Good for 90 lbs. pressure.

No. 2. 150 H. P. Baragwanath Heater, 30" diameter, 10" high, 8" exhaust openings, 2 1/2" feed water opening, iron tubes.

No. 24. 175 H. P. Reynolds Heater, 40" diameter, 10" high, brass tubes, 7" exhaust openings, 2" feed water openings.

No. 11. 175 H. P. Reynolds Heater, 24" diameter, 10" high, iron tubes, 10" exhaust openings, 2 1/2" feed water opening. Good for 125 lbs. pressure.

No. 14. 250 H. P. Brownell Open Type Heater, 26" diameter, 8" high, 10" exhaust openings, 3" feed water opening.

No. 25. Excelsior Heater and Purifier, open type, 45" diameter, 8" long, 16" exhaust openings, 6" feed water openings.

No. 26. 100 H. P. Baragwanath Heater, 38" diameter, 12" high, iron tubes, 14" exhaust openings, 3" feed water opening.

No. 21. 1500 H. P. Berryman Heater, 54" diameter, 18" high, brass tubes, 14" exhaust opening, 3" feed water opening.

No. H. 9. Baragwanath Heater, 2000 H. P., diameter 54", length over all 19'.

No. 14. 2000 H. P. Baragwanath Heater, 54" diameter, 20" high, brass tubes, 18" exhaust openings, 5" feed water opening.

No. 16. 2000 H. P. Baragwanath Heater, 54" diameter, 20" high, brass tubes, 18" exhaust openings, 5" feed water opening.

No. H. 8. Baragwanath Heater, 2000 H. P., diameter 54", length over all 19'.

No. 22. High Pressure Steam Separator, 48" diameter, 20" long, triple riveted, lap-joint, 7-16" shell, 24" inlet, 14" outlet. Good for 150 lbs. pressure.

#### TANKS

The following list of steel tanks will give you some idea of our stock. This stock is changing every day. Let us know what you are looking for. We can cut the price of new tanks in two.

No. 44. Steel Tanks, 20" diameter, 8' long, made of 3" steel. These tanks have one 9"x14" manhole in one head.

No. 17. Steel Tank 24" in diameter, 48" long, one head dished, made of 3-16" steel. 40 lbs. pressure.

No. T. 61. 24"x5' Cylindrical Tank.

No. T. 38. 24"x6' Cylindrical Tank.

No. 38. Steel Tank 24" in diameter, 8' long with 1" pipe connection in center of shell, and 1 10"x15" manhole in one head. 100 lbs. pressure.

No. 46. Steel Tank, 26" diameter, 34" long, with one head dished, made of 3-16" steel and will stand 100 lbs. pressure.

No. 43. Steel Tanks, 26" diameter, 8' long, with hanging lugs on each end. Made of 3-16" steel. Will stand 125 lbs. pressure.

No. T. 12. 30"x48" Cylindrical Tank.

No. 67. Steel Tank, 30" diameter, 5' long. Made of 3-16" steel. This tank has 1 9 1/2"x14" manhole on side.

No. 18. Steel Tank, 30" in diameter, 6' long, made of 3-16" steel.

No. T. 21. 30"x7" Tank.

No. T. 51. 30"x8" Cylindrical Tank.

No. T. 8. 30"x9' Cylindrical High Pressure Tank.

No. T. 31. 30"x10' Cylindrical Tank.

No. 73. Steel Tank, 30" diameter, 29' long. Made of 1" steel. This tank has 1 10"x15" manhole in one head.

No. 65. Steel Tanks, 32" diameter, 30" deep, dished heads. Made of 1" steel and will stand 100 lbs. pressure. This tank has 6" flanged opening on top of head.

No. T. 60. 32"x8' Cylindrical Tank.

No. 31. Steel Tank, 36" in diameter, 48" long, with one head dished. This tank has 1 1" bolt running through center, made of 3-16" steel.

No. 39. Steel Tank, 38" in diameter, 5' long, made of 5-16" steel. This tank has 1 4"x6" hand hole plate in one head and the other head is dished with 1 8" pipe connection in same. 100 lbs. pressure.

No. T. 16. 36"x6' Cylindrical Low Pressure Storage Tank.

No. T. 44. 36"x7' Cylindrical Tank.

No. T. 52. 36"x8' Cylindrical Tank.

No. T. 6. Steel Tank, 36" diameter, 8' long, dished heads with manhole in one head.

No. T. 56. 36"x9' High Pressure Tank.

No. 101. Steel Tank, 10' long, 36" in diameter, made of 1" steel. 100 lbs. pressure.

No. 64. Steel Tank, 36" diameter, 15' long. Made of 1" steel with 1 12"x15" manhole.

No. 47. Steel Tank, 42" diameter, 32" long, made of 3-16" steel with one 14"x8" manhole in dished head.

No. T. 57. 42"x5' Cylindrical Tank.

No. 45. Steel Tank, 42" diameter, 6' long, with 10"x15" manhole in shell near one head and two 6" outlets in same head. This tank is made of 1" steel and will stand 25 lbs. pressure.

No. 70. Steel Tank, 42" diameter, 12' long. 1 9"x14" manhole in one head. Made of 3-16" steel.

No. T. 37. 42"x9' Cylindrical Tank.

No. T. 53. 42"x10' Cylindrical Tank.

No. T. 64. 42"x12' Cylindrical High Pressure Tank.

No. 60. Steel Tank, 48" diameter, 48" long, with 1 12"x16" manhole on top. This tank has a steel dome and is made of 1" steel.

No. T. 29. 48"x6' Cylindrical Tank.

No. T. 56. 48"x10' Cylindrical Tank.

No. T. 26. 48"x12' Tank, high pressure.

No. 42. Steel Tank, 48" in diameter, 14" long, with horizontal sea double riveted. This tank has 1 4" pipe connection in shell near head and 1 6" pipe connection. It is fitted with 1 11"x15" manhole in same. Made of 1" steel. 100 lbs. pressure. Dished heads.

No. 25. Steel Tank, 48" in diameter, 19' long. Shell made of 2 sheets lap joint. Triple riveted. Made of 7-16" steel. 200 lbs. pressure. Ask for sketch.

No. T. 46. 50"x8' High Pressure Cylindrical Tank.

No. T. 22. 50"x10' High Pressure Tank.

No. 6. Steel Car Tank, 52" in diameter, 24" long, with a dome 24" diameter, 15" high. This dome is fitted with 11"x15" manhole. 60 lbs. pressure.

No. T. 47. 54"x8' Cylindrical Tank.

No. 22. Steel Tanks, 56" in diameter, 16' long, with dished heads. Shell made of 2 sheets with butt strap joints, quadruple rivet cast iron door 22"x19", riveted on shell near bottom. Made of 3" steel. 100 lbs. pressure.

No. 41. Steel Tank, 60" in diameter, 16' long, with cone heads, 42" long. One head fitted with a 10" flange connection and the other with a 6" flange connection, made of 5-16" steel. 100 lbs. with legs to stand on.

No. 24. 72"x16" Rendering Tank, with conical heads, with 15"x18" openings in shell near bottom and 1 15"x23" manhole in top head. Shell made of 5-16" steel and head of 3" steel.

No. 30. Open Top Tank, 16" deep, 5' 6" wide, 9' long, made of 3-16" steel. Good vat.

No. 50. Open Type Tank, 65" wide, 8' deep, 16' long, made of 1" steel, with a 3"x3" angle iron around the top.

No. T. 27. Rectangular Flat Bottom Open Top Tank, 5" wide, 3' high, 19' long.

No. 12. Round Bottom Open Top Steel Jacketed Kettle, with a 2" steam inlet, 53" wide, 36" deep, 7' long, stay bolted, 6" center, made of 1" steel.

No. 55. Round Bottom Steel Jacketed Kettle, 8' long, 30" wide, 4' deep. Steam space 1 1/2" made of 1" steel. Stay bolts 7" and 8" centers.

No. 63. Steel fly Wheel Pits, 9' long, 57" wide, 31" deep, made of 3-16" steel.

No. T. 55. 30"x5' Cylindrical Flat Bottom Open Top Tank.

No. T. 45. Circular Flat Bottom Open Top Tank, 11" diameter, 10" high.

**GENERATORS, MOTORS AND TRANSFORMERS**

We have a large stock of this material. Here are a few bargains. Note the prices.

No. 4. 1 1-3 K. W. Western Electric Co. Bipolar Generator D. C. shunt wound, 14 1/2 amp., 115 volts, 1500 R. P. M. \$60.00

No. 8. 45 C. and C. D. C. Multipolar Generator, 450 R. P. M., 500 volts. \$360.00

No. 6. 7 1/2 H. P. Akron Multipolar Motor, 220 volts, 900 R. P. M., 30 amp. \$85.00

No. 9. 15 K. W. Westinghouse Oil Type Transformer, 440 to 220 and 110 volts.

No. 10. 10 K. W. Westinghouse Oil Type Transformers, 440 to 220 and 110 volts.

No. 11. 5 K. W. Westinghouse Oil Type Transformers, 440 to 110 volts.

No. 144. 1-5 K. W. Watson Generator, 110 V., type C, 4 amp., 1350 R. P. M. \$20.00

No. 188. 5 H. P. Bidwell Multipolar Motor, 220 volts. \$100.00

#### ELECTRICAL INSTRUMENTS

These instruments are absolutely the finest made. Practically as good as new. Tell us what you need and our price will bring a check by return mail.

No. 49. Ashcroft Revolution Counter, 8" dial, brass case, registers up to 99 million.

No. 60. Thompson Recording Watt Meter, type M of the D. & M. class, 100 Registers up to 10 million watts.

No. 61. Thompson Recording Watt Meter, type M, class 96 of the S. A.

No. 62. Stanley Watt Meters, Direct Reading, 25 cycles, 110 volts, 200 amp.

No. 63. Westinghouse Ammeters, A. C., round from 0 to 200 amperes.

No. 65. Westinghouse Voltmeter, D. C., from 0 to 600 volts.

No. 66. Ammeter D. C., from 0 to 400 amperes.

No. 67. Ammeter, D. C. from 0 to 200 amperes.

No. 68. Ammeter, manufactured by Benton & McDonald, D. C., from 0 to 150 amperes.

No. 69. Keystone Ammeters, A. C., from 0 to 1000 amperes.

No. 70. Keystone Ammeter, 0 to 200 amperes.

No. 71. Stanley Ammeter, A. C., 0 to 40 amperes.

No. 72. Stanley Static Ground Detector, 2400 volts.

No. 73. Thompson-Huston Current Indicator, from 0 to 80 amperes, D. C.

No. 74. Wagner Watt Meters, K. W., A. C., 25 cycles reading from 0 to 1600.

No. 75. Westinghouse Power Factory Meter, 1200 amp., 6000 volts, 1 phase, 3000 alternations, A. C.

No. 76. Slattery Induction Volt Meter, from 0 to 55 volts.

No. 77. Thompson Portable Alternating Ammeter, from 0 to 10 amperes.

No. 78. Thompson Portable Alternating Ammeter, from 0 to 5 amperes.

No. E. P. 301. Thompson Recording Watt Meter, type M, Form G 2. Class No. 8000, 550 volts.



No. E. P. 503. Webster Station Ammeter, 0 to 10,000 amperes.

No. 81. Spring Ammeter, from 1 to 200 amperes

## FUSES

No. 134. 150 amp., 220 volts, 5 $\frac{1}{2}$ " long, from C. to C. 175 amp., 220 volts, 7" from C. to C.

No. 133. 25 ampere, 550 volts, 5" long. 40 ampere, 220 volts, 4" long.

No. 134. 50 amp., 500 volts, 6 $\frac{3}{4}$ " long, from C. to C. 60 to 150 amp. Ass't 500 volts, 7 $\frac{3}{4}$ " from C. to C.

No. 135. 60 ampere, 220 volts, 4" long. 70 ampere, 220 volts, 4" long.

No. 136. 200 ampere, 220 volts, 5" long. 200 ampere, 500 volts, square terminals to fit type "C" fuse block (Noark).

No. 137. 3 ampere, 500 volts, 4 $\frac{1}{2}$ " long. 4 to 10 ampere, ass't 500 volts, 4 $\frac{1}{2}$ " long.

No. 138. 25 ampere, 500 volts, 6 $\frac{1}{2}$ " from C. to C. 200 amp., 500 volts, 8 $\frac{1}{2}$ " from C. to C. 100 amp., 500 volts, 7 $\frac{1}{2}$ " from C. to C. 20 ampere, 2000 volts, 7" from C. to C.

No. 139. 3 ampere, 600 volts, 3" long. 10 ampere, 500 volts, 5 $\frac{1}{2}$ " long. 20 ampere, 500 volts, 5 $\frac{1}{2}$ " long. 12 ampere, 500 volts, 5 $\frac{1}{2}$ " long. 30 ampere, 2500 volts, Tube expulsion fuses C. E. No. 51296.

No. 140. 10 ampere, 10,000 volts. 14 ampere, 10,000 volts. 60 ampere, 10,000 volts. 20 ampere, 10,000 volts. 50 ampere, 10,000 volts.

## MISCELLANEOUS—ELECTRICAL GOODS

We solicit your inquiries on anything in the electrical line. Our prices will do the rest.

No. 79. Helios new Arc Lamps, A. C., open type, 133 cycles. In original cases just as they came from the factory. Price, each... \$4.00

No. 12. Cooke 25 line Terminal Post Head \$5.00

No. 14. 100 Drop Metallic Circuit Telephone Switchboard, complete golden oak finish... \$50.00

No. 15. Beacon Light, operated by acetylene gas lens, 8" light, 7" high.

No. 16. Brewers' Thermometers.

No. 31. 40 ft. Wayne Wood Cut-outs, each \$2.00

No. 32. Wurts Lightning Arrestor... \$1.00

No. 33. White Opalescent Shades, for 2 $\frac{1}{2}$ " shade holders, each... \$0.05

No. 36. Opalescent Shades for miniature lamps, each... \$0.05

No. 37. 12" Holopenc Shades, Each... \$1.00

No. 38. No. 62965 Double Pole, 30 amp. cut-outs, Edison base, each... \$0.05

No. 41. 12" Jandus A. C. Fans, 25 cycles, 110 volts.

No. 42. Reverse Current Relays for 50 volts.

No. 43. 9" Diehl D. C., fan, 110 volts.

No. 44. Bryant-Cleveland Arc Cutouts... \$0.75

No. 45. 4 bar 1000 ohm Telephones.

No. 46. 8 Drop Hotel Annunciator.

No. 47. 20 Drop Hotel Annunciator.

No. 48. 12 Drop Hotel Annunciator.

No. 50. Slate Panel 36"x36"x1 $\frac{1}{2}$ " thick, with one 100 amp, double pole single throw knife switch and 35 ten amp. single throw snap switches.

No. 53. Marble Panel Board 18"x20"x1" thick, with 175 to 112 amp. double pole single throw knife switch and 16 single pole snap switches, 16 circuits.

No. 131. Marble for Switchboards, 24"x25"x2", 30"x25"x2", 33"x25"x2", 32"x66"x2, 24"x66"x2, 42"x64"x1 $\frac{1}{2}$ ".

No. 124. No. 4-0 Slow Burning Weather Proof Copper Wire.

No. 125. Split Porcelain Knobs for No. 4 to No. 8 wire.

Split Porcelain Knobs for 2-0 to No. 6 wire. These are B. & D. knobs 1" below groove. Most of them are new. They are bought in bulk and we ship them loose but properly packed.

No. 127. 30 amp. D. P. M. L. Edison plug cutouts, second hand but in good condition. Price per dozen... \$0.50

50 amp. D. P. M. L. Peru cutouts, brand new. Price per dozen... \$0.50

No. 130. Brand new ceiling rosettes in original packages, each... \$0.10

No. 132. Arc Light Carbons 7-16"x7" per thousand... \$5.00

Arc Light Carbons, Black Diamond 7"x7" per thousand... \$4.00

No. 139. Watchman's Register, 16 stations. Good working order.

## HANGERS

Our stock of Hangers is so large that we can but give you a list of some special bargains we are offering. This will serve to show you the variety and extent of our stock. What do you think of these prices?

No. 10. 24"x2 7-16" Ball and Socket Adjustable Single Brace Hangers, made by the Dodge Mfg. Co. Will weigh about 135 lbs. Each... \$3.50

No. 24. 24"x2 15-16" Double Brace Standard Hangers. Will weigh about 150 lbs. Each... \$3.50

No. 11. 30"x2 7-16" Ball and Socket Adjustable Single Brace Hangers, made by the Dodge Mfg. Co. Will weigh about 200 lbs. Each... \$3.75

No. 79. 30"x3 7-16" Double Brace Standard Hangers... \$5.00

No. 80. 36"x3 3-16" Single Brace Standard Hangers... \$3.50

No. 6. Single Brace Hangers, 24" long, 4 7-16" bore. Will weigh about 300 lbs. Each... \$12.50

No. 3. Ball and Socket Chain Oiling Hangers, made by H. W. Caldwell Co., 30" long, 3 15-16" bore. Will weigh about 400 lbs. Each... \$12.50

No. 5. Floor stands, 20" long, 3 $\frac{1}{2}$ " bore. Will weigh about 190 lbs. Each... \$7.00

No. 4. Floor Stands, 24" long, 3 $\frac{1}{2}$ " bore. Will weigh about 295 lbs. Each... \$8.00

No. 2. Floor Stands, 32" long, 4 $\frac{1}{2}$ " bore. Will weigh about 450 lbs. Each... \$13.50

No. 1. Floor Stands, 36" long, 4 7-16" bore. Made by Falls Rivet Co. Will weigh about 600 lbs. Each... \$17.50

## BAND WHEELS AND PULLEYS

We can furnish your wants for anything in this line. Let us have your inquiries. Our prices will satisfy you.

No. 22. Band Wheel, 60" diam., 6" face, 4 3-16" bore. Will weigh about 600 lbs... \$0.02 lb.

No. 21. Band Wheel, 56" diam., 17" face, 4 15-16" bore. Will weigh about 600 lbs... \$0.02 lb.

No. 15. Band Wheel, 60" diam., 21" face, 9" bore. Will weigh about 700 lbs. Each... \$0.02 lb.

No. 18. Band Wheel, 60" diam., 11" face, 3 15-16" bore. Will weigh about 1300 lbs... \$0.02 lb.

No. 19. Band Wheel, 60" diam., 17" face, 4 7-16" bore. Will weigh about 1800 lbs... \$0.02 lb.

No. 17. Band Wheel, 12" diam., 20" face, 7 15-16" bore. Will weigh about 12,000 lbs... \$0.14 lb.

No. 16. Band Wheel, 12" diam., 25" face, 7 15-16" bore. Will weigh about 13,000 lbs... \$0.14 lb.

No. 23. Balance Wheel, 54"x44"x44", 4 11-16" bore. Will weigh about 1000 lbs... \$0.02 lb.

No. 20. Double Belt Iron Pulley, 62" diam., 21" face, 3 15-16" bore. Will weigh about 1500 lbs... \$0.02 lb.

No. 33. Double Belt Iron Pulleys, 66" diam., 19" face, 4 7-16" bore.

No. 35. 96"x8"x3 3-16" Iron Pulley.

## WIRE ROPE SHEAVE WHEELS

Our Sheave Wheels are from some of the best manufacturers in the country and are considered the finest product of the workman's art. We must, however, reduce our stock, and therefore we are quoting the following exceptionally low prices:

No. 68. 12" Wire Rope Sheave Wheels, will take from 1 $\frac{1}{2}$ " to 1 $\frac{3}{4}$ " rope and bores will range from 1" to 1 15-16". Weight 45 lbs. Each... \$1.25

No. 67. 18" Wire Rope Sheave Wheels, single groove for 3" rope, 2 $\frac{1}{2}$ " bore... \$2.50

No. 66. 18" Wire Rope Sheave Wheel, single groove, for 1 $\frac{1}{2}$ " rope, 1 7-16" bore... \$3.00

No. 65. 30" Wire Rope Sheave Wheel, single groove, for 1" rope, 1 15-16" bore... \$4.00

No. 64. 30" Wire Rope Sheave Wheel, 2 grooves, for 1" rope, 1 15-16" bore... \$5.00

No. 54. 30" Wire Rope Sheave Wheel, 2 grooves, for 1" rope, 2 7-16" bore... \$6.00

No. 39. 30" Wire Rope Sheave Wheel, 3 grooves for 1 $\frac{1}{2}$ " rope, 2 7-16" bore... \$8.00

No. 44. 32" Wire Rope Sheave Wheel, 15 grooves, for 1" rope, 2 15-16" bore... \$40.00

No. 41. 34" Wire Rope Sheave Wheels, single groove, for 1 $\frac{1}{2}$ " rope, 2 3-16" bore... \$9.00

No. 47. 36" Wire Rope Sheave Wheel, single groove, for 1" rope, 2 3-16" bore... \$5.00

No. 48. 36" Wire Rope Sheave Wheel, single groove, for 1 $\frac{1}{2}$ " rope, 1 15-16" bore... \$5.50

No. 81. 36" Wire Rope Sheave Wheel, single groove, for 1 $\frac{1}{2}$ " rope, 1 15-16" bore... \$10.00

No. 55. 36" Wire Rope Sheave Wheels, 2 grooves, for 1" rope, 1 15-16" bore... \$7.50

No. 46. 36" Wire Rope Sheave Wheel, 2 grooves, for 1" rope, 1 15-16" bore... \$8.00

No. 53. 36" Wire Rope Sheave Wheel, 2 grooves, for 1 $\frac{1}{2}$ " rope, 1 15-16" bore... \$10.00

No. 52. 36" Wire Rope Sheave Wheel, 6 grooves, for 1" rope, 2 3-16" bore... \$18.00

No. 56. 38" Wire Rope Sheave Wheel, 2 grooves, for 1" rope, 1 15-16" bore... \$10.00

No. 57. 40" Wire Rope Sheave Wheel, 6 grooves, for 1" rope, 2 $\frac{1}{2}$ " bore... \$17.50

No. 62. 42" Wire Rope Sheave Wheel, single groove, for 2" rope, 2 15-16" bore... \$12.00

No. 51. 42" Wire Rope Sheave Wheel, 3 grooves, for 1" rope, 2 15-16" bore... \$13.50

No. 61. 46" Wire Rope Sheave Wheel, 2 grooves, for 1" rope, 1 15-16" bore... \$10.00

No. 58. 48" Wire Rope Sheave Wheel, single groove, for 1 $\frac{1}{2}$ " rope, 1 15-16" bore... \$10.00

No. 59. 52" Wire Rope Sheave Wheel, single groove, for 1" rope, 2 15-16" bore... \$17.50

## TRANSMISSION SUPPLIES

We are listing below a few special bargains in transmission supplies. If you cannot find what you are looking for, let us know. We have it and our prices are right.

No. 78. 2 3-16" Adjustable Post Hangers... \$1.50

No. 84. 3 7-16" Adjustable Post Boxes... \$2.50

No. 8. 3 7-16" Adjustable Ball and Socket Post Boxes, made by the Dodge Mfg. Co. Will weigh about 120 lbs. Each... \$3.00

No. 9. 4 7-16" Adjustable Ball and Socket Post Boxes, made by the Dodge Mfg. Co. Will weigh about 150 lbs. Each... \$7.00

No. 7. 3 3-18" Ribbed Compression Couplings... \$12.50

No. 12. Set of Bevel Gears, 34" diam., 5" face, 3 7-16" bore, with one Pinion, 18" diam., 5" face, 2 15-16" bore. Will weigh about 350 lbs... \$20.00

No. 42. Tension Carriage, 60" Sheave, single groove, for 1 $\frac{1}{2}$ " rope... \$60.00

No. 43. Tension Carriage, 36" Sheave, single groove, for 1 $\frac{1}{2}$ " rope... \$30.00

No. 69. 42" Sprocket Wheels, for 75" or 87" chain, 2 15-16" bore... \$5.00

No. 71. No. 75 Sprocket Wheels, 30" diam., 2 15-16" bore... \$3.00

No. 72. No. 75 Split Sprocket Wheels, 20" diam., 2 15-16" bore... \$2.50

No. 73. No. 75 Sprocket Wheels, 20" diam., 2 15-16" bore... \$2.00

No. 74. No. 76 Sprocket Wheels, 24" diam., 2 15-16" bore... \$2.50

No. 76. No. 103 Sprocket Wheel, 25" diam., 2 7-16" bore... \$3.00

No. 82. 54" diam., 8" face, iron pulley with square jaw clutch.

No. 501. Friction Shaft Clutch, 1 15-16"... \$7.50

No. 502. No. 187 Sprocket Wheels, 3 15-16" bore. Each... \$7.50

No. 506. Double Circular Saw Mandrel Collars on both ends, 1 15-16" shaft, 30" long, shaft between collars 1 $\frac{1}{2}$ " pulley 6"x6" in center. Price complete with boxes... \$4.00

No. 507. Circular Saw Mandrel 1 $\frac{1}{2}$ " shaft 24" long, 6"x4" tight and loose pulleys on end, extra heavy 12" bearings... \$3.00

No. 505 $\frac{1}{2}$ . 84" Single Wire Rope Sheave Wheels will take up to 1 $\frac{1}{2}$ " rope, split hub... \$17.50

## VALVES AND FITTINGS

In reference to our stock of Traps, Separators, Valves and Fittings, we wish to state that same is too large to give you a complete list. We are presenting in the following list only a rambling selection of our immense stock. In fact, we are over-stocked and must sell some of them to make room for more that are coming in. Our prices on these goods is the wonder of the world.

We have not even listed small sizes of these articles, inasmuch as our line is so complete, containing practically every size, make and kind. Advise us what you are looking for; we have it and our prices will get your order. Don't forget that all these goods are thoroughly overhauled before being shipped. We test them out and will guarantee all these goods to be in first class working order, practical for further service.

## STEAM TRAPS.

No. 15. 6" Eureka Float Trap for low pressure; 1" feed, 3" discharge. Price... \$4.00

No. 14. No. 3 Branch Float Trap; 1" feed, 1" discharge... \$5.00

No. 24. Schaffer & Bundenberg Acme No. 3 Pot Trap, 1" feed, 1" discharge, with by-pass... \$5.00

No. 20. Branch No. 2 Steam Trap, 1 $\frac{1}{2}$ " feed, 1" discharge... \$7.00

No. 12. 12" High Pressure Crane Pot Trap with by-pass; 3" feed, 3" discharge... \$8.00

No. 25. No. 1 Nat'l Blower Steam Trap, 1" feed, 1" discharge... \$8.00

No. 11. No. 2 Kieley Steam Traps with by-pass; 1" feed, 1" discharge... \$8.00

No. 13. 14" Pot Traps, 1 $\frac{1}{2}$ " feed, 1" discharge... \$10.00

No. 10. No. 3 Wright Emergency Steam Traps, 1 $\frac{1}{2}$ " feed, 1" discharge... \$10.00

No. 9. No. 4 Cookston Steam Trap with by-pass, with 1" water glass connection; 1 $\frac{1}{2}$ " feed, 1" discharge... \$10.00

No. 17. 18" Pot Traps, 1 $\frac{1}{2}$ " feed, 1" discharge... \$12.50

No. 19. No. 5 Nason Class "C" Steam Trap... \$15.00

No. 18. 14"x8" Onderdonk Float Trap, 1" feed, 1 $\frac{1}{2}$ " discharge... \$15.00

No. 21. No. 2 National Blower Steam Trap, 1 $\frac{1}{2}$ " feed, 1" discharge... \$10.00

No. 5. No. 4 Eclipse Steam Trap with by-pass, 1 $\frac{1}{2}$ " feed, 1" discharge... \$22.50

No. 6. Foster & Bishop No. 3 Steam Trap, 2" feed, 1 $\frac{1}{2}$ " discharge... \$25.00

No. 22. No. 3 National Blower Steam Traps, 1 $\frac{1}{2}$ " feed, 1 $\frac{1}{2}$ " discharge... \$30.00

No. 8. No. 6 Cookston Steam Traps with by-pass, 1" water glass connection, 2" feed, 2" discharge... \$30.00

No. 23. No. 4 Nat'l Blower Steam Traps, 2" feed, 2" discharge... \$30.00

## REGULATING VALVES

No. 50. 1 $\frac{1}{2}$ " G. M. Davis Reducing Pressure Valve, without dash pot... \$8.00

No. 49. 2" G. M. Davis Reducing Pressure Valve, without dash pot... \$10.00

No. 341. 3" Hughson Eclipse Regulating Valve... \$25.00



No. 45. 4" G. M. Davis Pressure Regulating Valve, without dash pot. \$30.00  
 No. 47. 6" Flange Reducing Pressure Valve, flanges 6"x12", 10" bolt circle, eight 11-16" bolt holes. \$40.00  
 No. 2. 6" Flanged Pressure Regulating Valve, flanges 6"x11", 9 1/2" bolt circle, 8 1/2" bolt holes. Chaplin-Fulton make. \$40.00

### STEAM SEPARATORS

No. 30. 4 1/2" Flange Standard Austin Steam Separators. \$17.50  
 No. 29. 5" Eclipse Steam Separator, flanges 5"x10", 8 1/2" bolt circle, 8 1/2" bolt holes.  
 No. 4. 8" Warren Webster Oil Separators, flanges 8"x13 1/2", 11 1/2" bolt circle, 8 11-16" holes. \$25.00

### VALVES

On valves we can supply your wants on anything from 1/2" to 24". Note the following prices on some special bargains we are offering. These prices include all charges for putting the valves in as good a condition as when they first left the factory.

No. V. 25. 2 1/2" Gate Valves. \$2.50  
 No. V. 54. 2 1/2" Globe and Angle Valves. \$2.00  
 No. V. 75. 2 1/2" Horizontal Check Valves. \$1.50  
 No. V. 76. 2 1/2" Horizontal Swing Check Valves. \$2.00  
 No. V. 101. 2 1/2" Back Pressure Valves. \$2.60  
 No. V. 26. 3" Gate Valves. \$3.00  
 No. 84. 3" Screwed Quick Opening Gate Valves. \$4.00  
 No. V. 55. 3" Globe and Angle Valves. \$3.00  
 No. V. 102. 3" Back Pressure Valves. \$3.00  
 No. V. 79. 3 1/2" Horizontal Check Valves. \$3.00  
 No. V. 77. 3 1/2" Horizontal Check Valve. \$2.50  
 No. V. 78. 3" Horizontal Swing Check Valves. \$3.00

No. V. 27. 3 1/2" Gate Valves. \$3.50  
 No. V. 56. 3 1/2" Globe and Angle Valves. \$3.25  
 No. V. 80. 3 1/2" Horizontal Swing Check Valves. \$4.00  
 No. 325. 4" Hub and Gate Valves with indicator stands. \$6.00  
 No. V. 57. 4" Globe and Angle Valves. \$4.00  
 No. V. 28. 4" Gate Valves. \$4.00

No. 53. 4" Hub and Gate Valves, with indicator stands; made by the Morgan Iron Works. \$6.00  
 No. 76. 4" Extra Heavy Chapman Flanged Gate Valves, outside screw and yoke. \$10.00  
 No. 75. 4" Extra Heavy Crane Flanged Gate Valves, outside screw and yoke. \$10.00

No. V. 81. 4" Swing Check Valves. \$3.50  
 No. V. 83. 4" Horizontal Swing Check Valves. \$5.00  
 No. V. 103. 4" Back Pressure Valve. \$4.50  
 No. V. 29. 4 1/2" Gate Valves. \$4.75  
 No. V. 58. 4 1/2" Globe and Angle Valves. \$5.00  
 No. V. 104. 4 1/2" Back Pressure Valves. \$5.70  
 No. V. 30. 5" Gate Valves. \$5.00

No. 73. 5" Extra Heavy Flanged Gate Valves, outside screw and yoke. \$12.00  
 No. V. 69. 5" Globe and Angle Valves. \$5.50  
 No. V. 83. 5" Horizontal Swing Check Valves. \$6.50  
 No. V. 105. 5" Back Pressure Valve. \$6.70  
 No. V. 60. 6" Globe and Angle Valves. \$7.50  
 No. V. 31. 6" Gate Valves. \$6.00  
 No. V. 84. 6" Horizontal Swing Check Valves. \$8.00

No. V. 106. 6" Back Pressure Valves. \$8.60  
 No. 54. 7" Chapman Flange Gate Valves, 7"x12 1/2" flange, 10 1/2" bolt circle, 6 1/2" bolt holes. \$8.00  
 No. 55. Quick Opening Flange Gate Valves, 7"x13 1/2" flanges, 11 1/2" bolt circle, 7 1/2" bolt holes. \$10.00  
 No. 72. 7" Extra Heavy Flanged Gate Valve, Crane make. Non-rising stem. Outside screw yoke. \$20.00  
 No. 184. 7" Extra Heavy Flanged Gate Valve. \$15.00

No. 71. 7" Extra Heavy Flanged Gate Valves, outside screw and yoke. \$20.00  
 No. 82. 7" Screwed Gate Valves, with by-pass. \$8.00  
 No. 41. 7" Screwed Cross Valve. \$13.00  
 No. 321. 7" Extra Heavy Flanged Swing Check Valve. \$10.00

No. 44. 7" Screwed Back Pressure Valve. \$10.00  
 No. 7. 8" Screwed Gate Valves. \$10.00  
 No. 40. 8" Flanged Gate Valves. \$10.00  
 No. 62. 8" Standard Flange Gate Valves. \$10.00  
 No. 324. 8" Hub End Gate Valves with indicator stands. \$12.00

No. 74. 8" Extra Heavy Crane Flanged Gate Valves. Outside screw and yoke. \$24.00  
 No. 38. 8" Flanged Extra Heavy Gate Valves. Flanges 8"x15 1/2", 12" bolt circle; 12 13-16" bolt holes. \$17.50  
 No. 87. 8" Extra Heavy Flanged Gate Valve. \$17.50

No. 113. 8" Extra Heavy Chapman Flanged Gate Valves. Outside screw and yoke. \$17.50  
 No. 39. 8" Extra Heavy Flanged Gate Valves, extra heavy templet. \$17.50  
 No. 111. 8" Extra Heavy Flanged Gate Valve. Outside screw and yoke with by-pass. \$20.00  
 No. 142. 8" Extra Heavy Flanged Gate Valve, with by-pass. \$20.00

No. V. 62. 8" Globe and Angle Valves. \$14.00  
 No. 129. 8" Crane Screwed Globe Valve. \$12.00  
 No. 66. 8" Standard Screwed Angle Valve. \$12.00  
 No. 91. 8" Jenkin Bros. Standard Flanged Globe Valves, with composition metal disc, flanges. \$15.00

No. 37. 8" Extra Heavy Flanged Angle Valves. Crane make, extra heavy templet. \$15.00  
 No. 70. 9" Screwed Gate Valves. \$14.00  
 No. 166. 9" Standard Flanged Gate Valve. \$14.00  
 No. 107. 9" Extra Heavy Flanged Gate Valve, with by-pass. \$25.00

No. 36. 10" Screwed Gate Valve. \$15.00  
 No. 97. 10" Standard Screwed Gate Valve. \$16.00  
 No. 114. 10" Standard Flanged Gate Valve. \$16.00  
 No. 106. 10" Extra Heavy Flanged Gate Valves, with by-pass. \$30.00

No. 117. 10" Standard Flanged Angle. \$18.00  
 No. 141. 10" Standard Jenkin Bros. Flanged Angle Valves. \$25.00  
 No. 67. 10" Standard Screwed Horizontal Valve. \$17.50  
 No. 99. 10" Vertical Flanged Back Pressure Valve, Eclipse Std., drilled. \$25.00

No. 164. 12" Standard Chapman Flanged Gate Valves. Outside screw and yoke. \$20.00  
 No. 165. 12" Standard Flanged Gate Valves. \$20.00  
 No. 268. 12" Standard Flanged Gate Valve, outside screw and yoke. \$20.00

No. 143. 12" Chapman Standard Flanged Gate Valve, 18" flanges. \$18.00  
 No. 121. 12" Low Pressure Flanged Gate Valves, single disc. \$17.50  
 No. 104. 12" Extra Heavy Flanged Gate Valve, outside screw and yoke, with by-pass. \$40.00

No. 103. 12" Extra Heavy Flanged Gate Valve, outside screw and yoke, with by-pass. (Crane make) \$40.00  
 No. 88. 12" Extra Heavy Crane Flanged Gate Valve, outside screw and yoke. \$40.00  
 No. 93. 12" Hub End Valves. \$20.00

No. 94. 12" Standard Quick Opening Eddy Flanged Gate Valves, with rack and pinion. \$22.50  
 No. 145. 12" Jenkin Bros. Flanged Globe Valve. \$30.00  
 No. 32. 12" Flanged Angle Valves, outside screw and yoke. \$25.00

No. 320. 12" Standard Flanged Swing Check Valve. \$22.50  
 No. 68. 12" Standard Flange Horizontal Check Valve. \$22.50  
 No. 110. 14" Standard Crane Flanged Gate Valve. \$30.00

No. 80. 14" Standard Crane Flanged Gate Valve, outside screw and yoke. \$30.00  
 No. 167. 16" Standard Flanged Gate Valves, with by-pass, bevel geared. \$50.00  
 No. 124. 16" Chapman Low Pressure Flanged Gate Valve. \$30.00

No. 116. 16" Low Pressure Flanged Gate Valve. \$30.00  
 No. 92. 16" Extra Heavy Eaton Flanged Gate Valves. Outside screw and yoke with by-pass. \$75.00  
 No. 81. 16" Extra Heavy Chapman Flanged Gate Valves. Outside screw and yoke. \$75.00

No. 132. 18" Standard Flanged Gate Valves. \$55.00  
 No. 119. 18" Low Pressure Flanged Gate Valves. \$50.00  
 No. 102. 18" Extra Heavy Flanged Gate Valve, outside screw and yoke, with by-pass. \$100.00

### BRAND NEW VALVES

No. 509. 2" new C. C. Standard Flanged Gate Valves. \$3.00  
 No. 510. 2 1/2" new C. C. Standard Flanged Gate Valves. \$3.75  
 No. 507. 2" new Standard Flanged Globe Valves. \$2.75  
 No. 508. 3" new C. C. Standard Flanged Cross Valves. \$8.00

No. 504. 4" C. C. Standard Flanged Globe Valves. \$6.50  
 No. 506. 4" new C. C. Standard Flanged Gate Valves. \$6.00  
 No. 505. 6" new C. C. Standard Flanged Angle Valves, 6"x12" flanges, 10 1/2" bolt circle, 8 holes. \$12.50

Lot 503. 6" new Standard Flanged Globe Valves, 6"x12" flanges, 10 1/2" bolt circle, 8 holes. \$12.50  
 No. 502. 12" new Flanged Gate Valves, Standard Faced and drilled. \$35.00

### FITTINGS

The prices we are quoting below on Fittings will speak for themselves. As to Fittings, you know as well as we do that they are just as good as new ones. Let us have your inquiries in this line.

No. 257. 4" Standard Flanged Tee. \$2.00  
 No. 227. 4" Extra Heavy Flanged Tees. 2.75  
 No. 236. 4"x6" Extra Heavy Flanged Tee. 4.50  
 No. 245. 4"x2 1/2"x2 1/2" Extra Heavy Flanged Tee. \$3.00

No. 249. 4 1/2" Extra Heavy Flanged Elbow 2.20  
 No. 260. 5"x6" Standard Flanged Tee. 3.75

No. 229. 5" Extra Heavy Flanged Tee. \$3.50  
 No. 235. 5"x4"x4" Extra Heavy Flanged Tee. \$3.75

No. 215. 5"x4" Extra Heavy Flanged Tee. 3.75  
 No. 214. 5"x3" Extra Heavy Flanged Tee. 3.75  
 No. 219. 5"x3"x5" Extra Heavy Flanged Tee. \$3.75

No. 216. 5"x2"x2" Extra Heavy Flanged Tee. \$3.75  
 No. 228. 5"x2" Extra Heavy Flanged Tee. 3.75  
 No. 297. 5" Standard Flanged Drip Elbow, 2" drip. \$2.00

No. 250. 5" Extra Heavy, Flanged Elbows. 2.40  
 No. 263. 6" Standard Flanged Tees. 3.00  
 No. 218. 6"x4"x4" Standard Flanged Tee. 4.50  
 No. 90. 6"x8" Standard Flanged Tee. 6.00

No. 303. 6"x10" Extra Heavy Flanged Tee. \$12.00  
 No. 210. 6"x4"x6" Extra Heavy Flanged Tee. \$4.50  
 No. 198. 6" Extra Heavy Flanged Tees. 4.50  
 No. 204. 6"x4" Extra Heavy Flanged Tee. 4.50

No. 243. 6" Standard Flanged 45 deg. Elbow. \$2.50  
 No. 322. 6" Extra Heavy Pedestal Elbow. 5.50  
 No. 310. 7"x10" Standard Flanged Tee. 10.00  
 No. 60. 7"x5" Standard Flanged Tees. 5.00

No. 57. 7"x4 1/2" Flanged Tee. 5.00  
 No. 279. 7"x4" Standard Flanged Tee. 5.00  
 No. 304. 7"x3" Standard Flanged Tee. 5.00  
 No. 154. 7"x2 1/2" Flanged Tee. 5.00

No. 306. 7" Extra Heavy Flanged Tee. 5.75  
 No. 202. 7"x6"x5" Extra Heavy Flanged Tee. \$6.25  
 No. 307. 7"x5"x5" Extra Heavy Flanged Tee. \$6.25  
 No. 206. 7"x4" Extra Heavy Flanged Tee. 6.50

No. 296. 7" Standard Flanged Elbow. 3.25  
 No. 284. 7" Extra Heavy Flanged Elbow. 2.40  
 No. 261. 7"x6"x5" Standard Flanged Cross. 7.20  
 No. 159. 8" Extra Heavy Flanged Tee. 7.00

No. 290. 8"x10" Extra Heavy Flanged Tee. 12.50  
 No. 308. 8"x6"x6" Extra Heavy Flanged Tee. \$7.75  
 No. 151. 8" Standard Flanged Elbow. 3.75  
 No. 254. 8" Standard Flanged Elbow, 8"x15" flange. \$3.75

No. 252. 8" Standard Flanged 45 deg. Elbow. \$3.75  
 No. 244. 8"x6" Standard Flanged 45 deg. Elbow. \$4.00  
 No. 280. 8" Standard Flanged Pedestal Elbow. \$6.25

No. 195. 8" Extra Heavy Crane Flanged Elbow. \$5.00  
 No. 255. 8" Extra Heavy Flanged Elbow. 4.75  
 No. 86. 8" Long Turn Screwed Double Elbow. \$5.00

No. 262. 8"x7"x5" Standard Flanged Cross. 8.55  
 No. 203. 9"x8"x5" Standard Flanged Tee. 8.00  
 No. 277. 9"x7"x7" Standard Flanged Tee. 8.00  
 No. 148. 9" Standard Flanged Elbow. 5.50

No. 253. 9" Standard Flanged 45 deg. Elbow. \$4.50  
 No. 275. 9" Standard Flanged Pedestal Elbow. \$8.00  
 No. 309. 9" Extra Heavy Flanged Elbow. 6.00  
 No. 319. 10" Standard Flanged Tee. 8.50

No. 289. 10"x14" Standard Flanged Tee. 17.00  
 No. 197. 10"x12" Standard Flanged Tees. 13.00  
 No. 317. 10"x8" Extra Heavy Flanged Tee. 12.00  
 No. 315. 10"x7" Standard Flanged Tee. 9.00

No. 178. 10"x6" Standard Flanged Tee. 9.00  
 No. 316. 10"x5" Standard Flanged Cross. 13.00  
 No. 177. 10"x5" Standard Flanged Tee. 9.00  
 No. 176. 10"x4" Standard Flanged Tees. 9.00

No. 256. 10" Screw Tee. 3.50  
 No. 172. 10" Extra Heavy Flanged Tee. 10.50  
 No. 171. 10"x8" Extra Heavy Flanged Tee. 12.00  
 No. 300. 10"x6" Extra Heavy Flanged Tees. \$12.00

No. 301. 10"x5" Extra Heavy Flanged Tees. \$12.00  
 No. 278. 10" Standard Flanged Elbow. 6.00  
 No. 302. 10" Extra Heavy Flanged Elbow. 7.00  
 No. 161. 10" Standard Flanged Pedestal Elbow. \$10.00

No. 291. 10" 22 1/2 deg. Flanged Elbow. 6.00  
 No. 186. 10" Extra Heavy Flanged Elbow. 7.00  
 No. 189. 10" Extra Heavy 45 deg. Flanged Elbow. \$7.00  
 No. 196. 10"x5" Standard Flanged Cross. 13.00

No. 195. 10"x5"x4" Standard Flanged Cross. \$13.00  
 No. 58. 12" Flanged Tee. 10.00  
 No. 288. 12"x10" Standard Flanged Tees. 13.00  
 No. 155. 12"x7" Standard Flanged Tee. 12.50

No. 59. 12"x8" Standard Flanged Tee, 8" end threaded. \$12.00  
 No. 274. 12"x10" Extra Heavy Flanged Tees. \$16.00  
 No. 69. 12"x9"x9" Standard Screwed Tee. 6.00  
 No. 187. 12" Standard Flanged Elbows. \$7.50

No. 183. 12" Standard Flanged Pedestal Elbow. \$12.50  
 No. 295. 12" Standard Long Turn Flanged Elbow. \$20.00  
 No. 314. 12" Extra Heavy Flanged Elbow. 10.00  
 No. 195. 12" Extra Heavy 45 deg. Flanged Elbow. \$10.00



No. 287.	12" Standard Flanged Tee	\$16.00
No. 338.	14" Standard Flanged Tee	15.00
No. 153.	14"x10" Extra Heavy Flanged Tee	\$21.00
No. 299.	14" Standard Flanged Elbow	10.00
No. 282.	14" Standard Flanged 45 deg. Elbow	\$10.00
No. 160.	14" Extra Heavy Flanged Elbow	19.00
No. 134.	14" Extra Heavy Crane Flanged Elbows	\$15.00
No. 285.	14"x8" Standard Flanged Cross	23.00
No. 144.	15" Low Pressure Flanged Tees	20.00
No. 281.	16" Standard Flanged Tee	22.50
No. 223.	16" Flanged Tee, 23" flanges	22.50
No. 139.	16" Low Pressure Flanged Tees	23.00
No. 326.	18"x10" Low Pressure Flanged Tees	\$22.50
No. 337.	18" Low Pressure Flanged Tee	27.50
No. 267.	18"x16" Extra Heavy Flanged Tees	\$37.50

## STEAM GAUGES

In dismantling many power plants, we have secured an immense stock of steam gauges, which include gauges practically from all the best manufacturers in the country. The prices quoted below will give you some idea as to what you can save by purchasing from us. We have other sizes and makes. Ask us about them.

No. 24.	30 lb. Low Pressure Iron Case, Steam Gauge, made by Borden Steam Gauge Co., 4" dial.	Price.....\$0.50
No. 25.	30 lb. Air Gauge, made by Bishop & Babcock Company, 5" dial.	Price.....\$0.50
No. 29.	30 lb. Iron Case, Steam Gauge, 4" dial, made by James P. Marsh Company.	Price \$0.50
No. 83.	30 lb. Brass Case, Steam Gauge, made by Ashcroft Mfg. Co., 10" dial.	Price.....\$3.00
No. 37.	80 lb. Iron Case, Steam Gauge, 5" dial, made by James P. Marsh & Company.	Price \$0.50
No. 35.	80 lb. Brass Case, Steam Gauge, 5" dial, made by James P. Marsh & Company.	Price.....\$1.00
No. 10.	100 lb. Iron Case, Steam Gauge, made by The American Steam Gauge & Valve Company, 5" dial.	Price.....\$0.50
No. 46.	100 lb. Iron Case, Steam Gauge, 6" dial, made by Ashcroft Mfg. Company.	Price \$0.50
No. 16.	100 lb. Iron Case, Steam Gauge, 5" dial, made by the Ashcroft Mfg. Co.	Price.....\$0.75
No. 75.	100 lb. Iron Case, Steam Gauge, 10" dial, made by Ashcroft Mfg. Co.	Price.....\$2.00
No. 33.	100 lb. Brass Case, Steam Gauge, 6" dial, made by the Utica Steam Gauge Co.	Price.....\$2.00
No. 7.	120 lb. Iron Case, Steam Gauge, 4" dial.	Price.....\$0.50
No. 52.	125 lb. Brass Case, Steam Gauge, 6" dial, made by James P. Marsh Company.	Price \$1.00
No. 17.	160 lb. Iron Case, Steam Gauge, 4" dial, made by a pig tail Syphon and Gauge Cock, made by E. A. Wood Company.	Price.....\$0.50
No. 26.	160 lb. Iron Case, Steam Gauge, with a Gauge Cock and Syphon, 5" dial, made by Ashcroft Mfg. Co.	Price.....\$0.50
No. 41.	160 lb. Iron Case, Steam Gauge, 5" dial.	Price.....\$0.50
No. 51.	180 lb. Iron Case, Steam Gauge, 6" dial, made by the American Steam Gauge and Valve Co.	Price.....\$1.00
No. 53.	160 lb. Iron Case, Steam Gauge, 10" dial, made by James P. Marsh Company.	Price \$1.00
No. 12.	Ammonia Gauge, 160 lb. Iron Case, 5" dial, made by Schaeffer-Budenberg Company.	Price.....\$1.00
No. 32.	140 lb. Brass Case, Steam Gauge, 8" dial.	Price.....\$2.00
No. 6.	200 lb. Iron Case, Steam Gauge, 5" dial, made by the Utica Steam Gauge Co.	Price.....\$0.50
No. 50.	200 lb. Iron Case, Steam Gauges, 6" dial, made by the American Steam Gauge & Valve Co.	Price.....\$0.50
No. 85.	200 lb. Iron Case, Steam Gauge, 5" dial, made by James P. Marsh & Co.	Price \$0.50
No. 88.	200 lb. Iron Case, Steam Gauge, 5" dial, made by Schaeffer-Budenberg Co.	Price \$0.50
No. 89.	200 lb. Brass Case, Steam Gauge, 6" dial, made by Standard Gauge Co.	Price.....\$1.00
No. 54.	200 lb. Iron Case, Steam Gauge, 10" dial, made by Crosby Steam Gauge Co.	Price.....\$2.00
No. 59.	200 lb. Iron Case, Steam Gauge, made by Bellfield & Company.	Price.....\$2.00
No. 80.	200 lb. Brass Case, Steam Gauge, 10" dial, made by Crosby Steam Gauge Co.	Price \$3.00
No. 79.	200 lb. Iron Case, Steam Gauge, 16" dial, made by Schaeffer-Budenberg Co.	Price \$5.00
No. 78.	200 lb. Iron Case, Steam Gauge, 18" dial, made by Schaeffer-Budenberg Co.	Price \$5.00
No. 77.	200 lb. Brass Case, Tri-pod, Steam Gauge, 16" dial, made by Jas. P. Marsh Co.	Price.....\$6.00
No. 76.	200 lb. Brass Case, Tri-pod, Steam Gauge, 16" dial, made by Jas. P. Marsh Co.	Price.....\$6.00
No. 73.	250 lb. Brass Case, Steam Gauge, 10" dial, made by Utica Steam Gauge Co.	Price \$4.00
No. 38.	300 lb. Brass Case, Steam Gauge, 5" dial, made by Star Brass Company.	Price.....\$1.00

No. 23.	300 lb. Ammonia Gauge, 4 1/2" dial, made by Crosby Steam Gauge Co.	Price.....\$1.00
No. 44.	800 lb. Special Water Works Gauge, made by Ashcroft Mfg. Co.	Price.....\$10.00
No. 18.	Vacuum Gauge Iron Case, 5 1/2" dial, for 15 lbs. of pressure and 30" of vacuum, made by the Steel Brass Company.	Price.....\$1.00
No. 47.	Revolution Counter, 8" dial, Brass Case, made by the Ashcroft Mfg. Co.	Price.....\$5.00
No. 31.	1000 lb. Iron Case, Steam Gauge, 6" dial, made by Ashcroft Mfg. Co.	Price.....\$1.00
No. 165.	200 lb. Steam Gauges, made by Schaeffer & Budenberg Co.	Brass Case, 12" dial. Price, each.....\$10.00
No. 182.	Crosby Recording Pressure Gauges, 6" dial, Brass Case.	Price, each.....\$10.00
No. 181.	Bristol Recording Pressure Gauges, 8" dial, Brass Case.	Price.....\$15.00
No. 180.	Columbia Recording Pressure Gauges, Brass Case, 8" dial, made by Schaeffer & Tuber Co.	Price.....\$20.00

## INJECTORS

No. 92.	Watson Injector, 1" connections.	Price.....\$1.00
No. 102.	No. 1 Garfield Automatic Injector.	Price.....\$2.00
No. 96.	Injector with 1/2" connection.	Price.....\$2.00
No. 95.	No. 3 Hart Improved Injector, 3/4" connection.	Price.....\$2.00
No. 94.	Watson Injector, 1/2" connection.	Price.....\$2.00
No. 100.	No. 4 Automatic Chief Injector.	Price.....\$2.50
No. 101.	No. 1 Automatic Injector.	Price 2.50
No. 99.	No. 1 Leader Injector, 1/2" steam pipe, 3/4" suction, 3/4" feed. 60 gal. per hour, 60 lbs. steam.	Price.....\$2.50
No. 98.	Hancock Inspirator, 1/2" connection.	Price.....\$3.50
No. 97.	No. 10 Leader Injector, 1 1/2" connection. 1000 gal. per hour, 60 lbs. steam.	Price.....\$10.00
No. 93.	No. 10 Metropolitan Injector, 1 1/2" connection.	Price.....\$5.00

## LUBRICATORS

We have Lubricators of all sizes and makes. Our prices on them certainly are rock bottom.

Our prices on them certainly are rock bottom.		
No. 153.	Plain Brass Lubricator, 2" body, 3/4" connection.	\$0.30
No. 121.	1 pt. Single Connection Sight Feed, brass Lubricator.	Price \$1.00
No. 107.	Glass Lubricator, 1/2" shank.	Price \$1.00
No. 155.	Second-hand Sight Feed Lubricators, ranging in size from 1-3 pt. to 1 pt. These Lubricators have accumulated in our purchase of machinery and are of well known makes and patterns. If you will advise your wants, referring to lot No. 155, we shall be pleased to fill your order at, each	Price \$1.50
No. 161.	1 pt. Double Connection Sight Feed Lubricators.	Price \$1.50
No. 91.	Oil Pump Lubricator, 4" high, 4" diameter, 1/2" connection.	Price \$1.50
No. 151.	1 qt. Brass Lubricators, 4" body, 1/2" female shank.	Price \$2.00
No. 117.	1 qt. Detroit Double Connection Sight Feed Lubricators.	Price \$2.50
No. 169.	1 qt. Double Connection Side Feed Brass Lubricators.	Price \$4.00
No. 104.	Double Connection Sight Feed, Detroit Lubricator, 1/2 gal.	Price \$4.00

## OIL CUPS

Can you beat these prices? Our goods, too, are right. You cannot do anything better than to order some of these today.

No. 159.	This lot consists of a number of small compression grease cups ranging in size from 1" to 2". We are anxious to move these small grease cups and will give you your choice at, each	Price.....\$0.10
No. 149.	Plain Brass Oil Cup, 1 1/2" body, 1/2" shank.	Price.....\$0.20
No. 148.	Sight Feed Oil Cups, 3/4" body, 1/2" shank.	Price.....\$0.20
No. 142.	Round Glass Oil Cup, 2" diameter, 3/4" connection.	Price.....\$0.25
No. 141.	Oil Cup, 2" body, 3/4" connection.	Price.....\$0.25
No. 146.	Glass Sight Feed Oil Cup, 2" body, 3/4" connection.	Price.....\$0.30
No. 150.	This lot consists of both sight feed and plain brass oil cups, ranging in size from 1/2" body to 2" body. We have about 250 of these small oil cups in this lot and are positive we can supply your wants if you will advise us the connection of your pipe. In order to close these oil cups out at once we are offering them at, each	Price.....\$0.25
No. 157.	This lot consists of 60 compression grease cups, 3" body.	Price.....\$0.50
No. 147.	Crank Oilier 2 1/2" body, 1/2" shank.	Price.....\$0.35
No. 140.	Oil Cup, 3" body, 3/4" connection.	Price.....\$0.40
No. 144.	Lunkenhaimer Index Glass Sight Feed Oil Cup.	Price.....\$0.50
No. 129.	Sight Feed Oil Cup, 2 1/2" body, 1/2" connection.	Price.....\$0.50
No. 122.	Brass Oil Cup, 2 1/2" body, 1/2" connection.	Price.....\$0.50

No. 120.	Glass Oil Cup, 2 1/2" body, 1/2" connection.	Price.....\$0.50
No. 111.	Sight Feed Oil Cup, 3" diameter, 2 1/2" high, 1/2" connection.	Price.....\$0.50
No. 126.	Sight Feed Oil Cup, 4 1/2" body, 3/4" case.	Price.....\$1.25
No. 152.	Sight Feed Glass Oil Cup, 4 1/2" high.	Price.....\$1.50
No. 124.	Oil Cups, 6" high, 4 1/2" body, 1/2" connection. These cups are fitted with legs to fasten to the wall.	Price.....\$2.00
No. 110.	Index Oil Cup, 3 1/2" high, 3" diameter, 3/4" connections.	Price.....\$2.50
No. 105.	Brass Sight Feed Oil Cups, 1 qt. capacity. 1" pipe shank.	Price.....\$3.00

## MISCELLANEOUS BRASS GOODS

We are constantly receiving all kinds of goods in this line and our stock is always changing. Send us a list of your wants for anything in this line. We are sure that we can satisfy you as to quality and price.

No. 167. We have the following brass gate valves which have never been used but which have become somewhat dirty from lying in stock. If you can use brass gates of these sizes, we will quote you the following low prices:

No. 165.	2 1/2" Brass Gate Valves, each	Price.....\$3.00
No. 166.	3" Brass Gate Valves, each	Price.....4.00
No. 166.	We have a stock at the present time a lot of Brass Angle Valves, which have become shop worn, which we are unable to sell as new valves. These valves are of such well known makes as Crane, Luckenheimer and Scott, and in order to move them we will quote the following:	
1 1/2"	Brass Angle Valves	Price.....\$0.60
1 1/2"	Brass Angle Valves	Price......75
2"	Brass Angle Valves	Price.....1.25
2 1/2"	Brass Angle Valves	Price.....2.50
3"	Brass Angle Valves	Price.....3.25
No. 163.	1 1/2" Kippel & Thomas Pressure Regulating Valve.	Price.....\$10.00
No. 162.	Chime Whistle, complete with valve, 1 1/2" connection.	Price.....\$10.00
No. 103.	No. 1 Blakesley Steam Jet Pump, 1" section, 3/4" discharge, 1/2" steam pipe, force 1/2" steam opening. Capacity 15 gal. per minute.	Price.....\$1.00
No. 106.	Glass Oil Pump, 6" high, 5" diameter, 1" connection.	Price.....\$4.00
No. 156.	This lot consists of Brass Steam Whistles complete with spring valves. Before shipping them out on orders they are thoroughly tested and found to be in good condition. Note the prices:	
1 1/2"	body, 1/2" connection.	Price.....\$0.50
1 1/2"	body, 1/2" connection.	Price......75
2"	body, 1/2" connection.	Price.....1.00
3"	body, 1/2" connection.	Price.....1.50
3"	body, 1" connection.	Price.....2.00
No. 109.	Mason Ejector, 1 1/2" connection.	Price.....\$5.00

## COTTON BELTING

## For Elevator Purposes.

Lot No. 304. We have in stock at the present time a lot of 20 inch 4 ply, and 30 inch, 4 ply Cotton Belting in the lengths listed below. These Belts are very good for elevator purposes. We must move them, however, to make room for our fast increasing stock, and therefore, quote the following exceptionally low prices:

Item No.	Wdt. in in.	Ply	Length in ft.	Price per ft.
CB-31	20	4	80	\$0.23
CB-32	20	4	95	.23
CB-33	20	4	100	.23
CB-34	20	4	120	.23
CB-35	20	4	125	.23
CB-36	20	4	140	.23
CB-37	20	4	150	.23
CB-38	30	4	85	.42
CB-39	30	4	100	.42
CB-40	30	4	110	.42
CB-41	30	4	125	.42
CB-42	30	4	140	.42
CB-43	30	4	155	.42

## STEAM PISTON PACKING

Lot No. 305. In our stock at the present time we have a large quantity of Round Steam Piston Packing in sizes from 1-inch to 2-inch, inclusive. This packing is made of braided cotton, with a rubber core in the middle. We would like to submit you a sample, and, should same prove satisfactory, we will sell this packing to you at per pound

## RAWHIDE TRANSMITTING ROPE

## Lot No. 306.

No. of lengths.	Size of lengths.	Price
1	220' 1"	\$22.00
1	200' 1"	20.00
1	110' 1"	11.00
1	110' 1"	11.00
1	150' 1"	15.00
1	90' 1"	9.00
1	40' 1"	4.00
1	22' 1"	1.50
1	70' 1 1/2"	7.00
1	160' 1 1/2"	10.00



## MISCELLANEOUS ITEMS

You will find in the list below some special bargains, that we have only a few of each kind. These prices you will find to be very low. If you don't find exactly what you are looking for advise us. We can undoubtedly fill your wants.

## DOUBLE DECK CAR TRUCKS

**Lot No. 181.** This is a solid iron car with the exception of the deck, which is made of hardwood. They are 26" gauge, 12" wheels, set in roller bearing boxes. The axles are solid on the wheels, diameter of axle 1 1/2", length of frame 61", width of frame 34". The bottom frame is made of 3"x2 1/2" angle iron. The upper deck is supported by four 2 1/2"x2 1/2" angle irons, one at each center. The angles can be taken off of the upper deck and car used as a single platform car. The decks are made of hardwood and are bolted to iron frame with 1 1/2"x1 1/2" angle iron. They are second hand but in good condition. We will paint them up and put them in first class condition before shipment. They were originally made by the Ironclad Dryer Co. \$10.00

## BRAND NEW FEED GRINDERS

**Lot No. 63.** This mill has a shut-off in the feed which will allow it to be reduced or increased in capacity as desired, depending upon the amount of power to be used. It has the best cob breaker and the best natural feed. It will not choke and will not heat the grain.

## Directions for Operating

These mills are shipped set up complete except the hopper, which is easily placed on the mill by putting the three rods in their places and screwing down with the thumb screws. Set the mill in line with the power applied; that is, the shaft of the mill must be parallel to the driving shaft. Put smooth side of belt next to pulley and be sure mill is level. Should your belt slip apply castor oil. Before starting mill separate the burrs by turning small hand wheel No. 35. After the mill is started adjust the burrs to the fineness required. In starting the mill we advise grinding coarse for the first ten minutes allowing the burrs to become warmed and adjusted to the work. Start your mill with the brass cut-off closed and then open to allow the grain to pass in burrs in quantity dependent upon the fineness you are grinding and amount of power you are using. The burrs are made of white metal, very hard and true. THEY ARE INTENDED FOR CORN AND COB GRINDING, as well as for shelled corn and all grain for feed purposes.

The mill can be run by belt power, either horse, windmill, engine or electricity, and should be run at a velocity of between 750 and 1,000 revolutions \$18.00

**Lot No. 66.** Same as above, without Cob Crusher, each. \$17.00

## STEEL FIRE DOORS

**Lot No. 182.** We have a number of Steel Fire Doors which we obtained in one of our recent wrecking operations. They are made of 3/4" steel plates. The inside has a 2"x2"x1/2" angle running all around the edge of the door, three in. from the end. They also have two 1/2"x3" straps running across the door. On the outside there are three straps running almost the full width of the door. The lock is a double lever, worked by a handle which fastens into the frame when closed. These doors are complete with frames and are in the following sizes:

8' 6" high, 4' wide, 3/4" steel plate	\$14.00
8' 4" high, 4' wide, 3/4" steel plate	14.00
7' 2" high, 4' wide, 3/4" steel plate	11.00
7' 2" high, 3' wide, 3/4" steel plate	9.00
6' 7" high, 3' wide, 3/4" steel plate	9.00

**Lot No. 1801.** Steel Fire Doors. We have a lot of double steel fire doors which are practically as good as new. Height of frame 90"; height of door 85"; width of frame 67"; width of doors 60"; frame 1/2" thick; door 1/2" thick.

Lock is worked by handle operating 2 1" cross lock bolts. Each. \$15.00

**Lot No. 1802.** Steel Fire Doors. This lot of doors are in excellent condition. They have only single door and the top is round. Height of frame 90"; width of frame 56"; height of door 87"; width of door 50"; frame 3/4" thick; door 3/4" thick.

They have 3 1/2"x3 1/2" straps running across the doors and lock operates 3 1/2"x3 1/2" bolts. \$12.00

## BATH TUBS

**Lot No. M. R. 81.** 25 Cast Iron Bath Tubs, roll rim, without any enamel on the inside. They are painted two coats and suitable for water troughs and can also be used for Bath Tubs.

Price 5' long, each.	\$6.00
Price 5 1/2' long, each.	7.00

## SPECIAL BARGAINS OF I BEAMS, CHANNELS, GIRDES AND CAST COLUMNS

**Lot No. 1800.** With reference to Structural Iron we are in a position to save you money upon anything in this line. Our material is just as good

as new. We are enumerating below some special items that we will sell very cheap.

## 5" I Beams

50 12 1/2 lb. 5' 6"

50 9 1/2 lb. 6'

## 6" I Beams

50 12 1/2 lb. 5'

25 12 1/2 lb. 6'

25 14 1/2 lb. 6' 6"

## 8" I Beams

50 20 1/2 lb. 5'

25 20 1/2 lb. 6'

25 20 1/2 lb. 7'

20 18 lb. 6'

40 18 lb. 7' 6"

## 9" I Beams

25 25 lb. 5'

40 25 lb. 6'

40 25 lb. 7'

25 25 lb. 8'

50 21 lb. 5'

50 21 lb. 6'

30 21 lb. 7'

25 21 lb. 8'

## 10 1/2" I Beams

100 35 lb. 7' to 9'

50 35 lb. 10'

50 35 lb. 10' 6"

25 35 lb. 11'

75 35 lb. 12'

50 35 lb. 14'

## 12" I Beams

100 40 lb. 9' to 11'

400 40 lb. 12' 4"

50 40 lb. 13' 6"

50 40 lb. 14'

10 50 lb. 11' 6"

10 50 lb. 11'

## 15" I Beams

25 42 lb. 10'

15 42 lb. 12'

25 42 lb. 13'

40 42 lb. 14'

## 24" I Beams

22 100 lb. 23' 10"

4 100 lb. 16'

## 8" Channels

50 8'

50 7'

50 8'

50 7'

## 9" Channels

40 6' 6"

25 7'

25 8'

## 10" Channels

25 6' 6"

40 7'

25 8'

## 12" Channels

25 6' 6"

35 7'

25 8'

## Cast Columns

100 9", 1" metal, 12'

long, 13 1/2" round flanges

top and bottom.

14" top flanges.

3 10", 1 1/2" metal, 18'

3" long, 18"x18" flanges

top and bottom.

4 8", 1 1/2" metal, 10'

long, 24"x24" base and

14" top flanges.

## I Beam Girders

4 Girders 34' 4" long.

Each composed of 2 20"

75 lb. I Beams with

1/2"x14" plate riveted top

and bottom, and 3"x3"

angles each side.

4 36" Plate Girders,

33' long, made of 7-16"

plate and 6"x6"x1/2" angles.

3 30" Plate Girders,

30' long, made of 7-16"

plate and 6"x4"x1/2" angles.

## SECOND HAND TACKLE BLOCKS

**Lot No. 421.** Wood Shell Tackle Blocks.

3" single, for 3" rope. \$0.10

3" double, for 3" rope. .17

3" triple, for 3" rope. .20

4" single, for 4" rope. .12

4" double, for 4" rope. .20

4" triple, for 4" rope. .25

5" single, for 5" rope. .13

5" double, for 5" rope. .22

5" triple, for 5" rope. .27

6" single, for 6" rope. .15

6" double, for 6" rope. .25

6" triple, for 6" rope. .35

7" single, for 7" rope. .16

7" double, for 7" rope. .28

7" triple, for 7" rope. .40

8" single, for 8" rope. .20

8" double, for 8" rope. .35

8" triple, for 8" rope. .50

10" single, for 10" rope. .30

10" double, for 10" rope. .55

10" triple, for 10" rope. .75

12" single, for 12" rope. .50

12" double, for 12" rope. .85

12" triple, for 12" rope. 1.25

14" single, for 14" rope. .95

14" double, for 14" rope. 1.40

14" triple, for 14" rope. 1.95

15" single, for 15" rope. 1.10

15" double, for 15" rope. 1.75

15" triple, for 15" rope. 2.25

## MISCELLANEOUS TACKLE BLOCKS

**Lot No. 121.** 4 12" Extra Heavy Wood Snatch

Blocks, will take up to 1 1/2" rope. \$4.00

**Lot No. 120.** 3 14" Extra Heavy Wood Snatch

Blocks, will take up to 1 1/2" rope. \$5.00

**Lot No. 119.** 6 20" Extra Heavy Wood Snatch

Blocks, will take up to 2 1/2" rope. \$12.00

**Lot No. 118.** 6 24" Triple Bullock Brand

Extra Heavy Wood Shell Tackle Blocks, will take

up to 3 1/2" rope. \$30.00

**Lot No. 103.** 1 12" Single Wire Rope Block

\$3.00

**Lot No. 108.** 1 12" Double Wire Rope Block

\$4.50

**Lot No. 116.** 1 14" Double Wire Rope Block

\$4.50

**Lot No. 114.** 1 16" Single Wire Rope Block

\$4.50

**Lot No. 115.** 1 16" Triple Wire Rope Block

\$7.50

**Lot No. 112.** 1 18" Single Wire Rope Block

\$5.00

**Lot No. 113.** 4 18" Double Wire Rope Blocks

\$7.00

**Lot No. 101.** 1 8" Single Male Iron Block. .50

**Lot No. 105.** 1 8" Double Steel Tackle Block. \$0.35

**Lot No. 102.** 1 12" Double Steel Tackle Block

\$1.50

**Lot No. 109.** 2 24" Steel Snatch Blocks. \$12.00

**Lot No. 106.** 1 8" Wrought Iron Gin Block,

for Manila Rope. \$1.25

**Lot No. 110.** 2 14" Wire Rope Gin Blocks. 3.50

**Lot No. 104.** 1 16" Wrought Iron Gin Block,

for Wire Rope. \$4.50

**Lot No. 111.** 2 18" Double Wire Rope Gin

Blocks. \$12.50

**Item No. D.** 500 White Italian Marble Wain-

scotting, 5" wide, 1 1/2" thick; in first class condition;

second-hand, per lineal foot. \$0.15

**Item No. E.** 100 second-hand Italian Marble

Slabs with backs, ranging in size from 20" to 24"x48"

and from 1 1/2" to 1 1/2" thick. These are in good con-

dition, the defects are stains without cracks. They

are for 14", 15" and 16" round basins, and 41"x17"

to 15"x19" oval basins. Each. \$2.50

**Item No. F.** 10 Tennessee Quarter Circle

Corner Slabs for 14"x17" basins. They are 24"x24";

complete with 12" back, 1 1/2" thick. They are in

excellent condition, no cracks and no stains.

Either 1 or 2-cock holes. \$3.00

**Item No. G.** 14 Quarter Circle Italian Marble

Corner Slabs; complete with backs, for 14" round

and 14"x17" oval basins, ranging from 20"x20"

to 24"x24"; the backs from 8" to 12" high; second-

hand; the defects are stains. Each. \$2.25

**Item No. H.** 6 Mantel Tops of Tennessee

Marble, 78" long, 16" wide, 1 1/2" thick. Each. \$4.00

## PACKING

**Lot No. M. E. 10.** 5000 pounds of large size,

square branded flax packing and round rubber

cord packing for high pressure work; size 1" and

larger, per lb. \$0.04

**Lot No. 274.** These wonderful Sweepers came

to us from the World's Fair, St. Louis. They are

the most practical sweepers manufactured. Were

used in keeping clean highways of the exposition.

They are named the "Peerless" and are fully de-

serving of the name. Useful for the parks, public

buildings, factories, theaters, hotels, etc. We

have 20 of them. Each, with extra brush. \$25.00

**Lot No. 610.** Forty Steel Asphalt Scrapers,

made by the Austin Mfg. Company, for use at the

St. Louis World's Fair. Good as new. \$2.00

**Lot No. M. 40.** Medium size Recks Copper

Fire Extinguishers, without supplies, each. \$4.50

**Lot No. M. 41.** Fire Department Harness

Holders, per set. \$3.00

**Lot No. M. 42.** 25 Babcock Fire Extinguisher

Holders, each. \$0.50

**Lot No. M. 43.** Sulphuric Acid, for use on

Babcock Fire Extinguisher charges. Price on ap-

plication.

**Lot No. M. 44.** Bi-carbonate of Soda, 112 lbs.

to the keg. Price on application.

**Lot No. M. 40.** 16' Fireman's Scaling Hooks,

each. \$2.50

**Lot No. 422.** Heavy Wire Netting, extra heavy



**IRON FENCE**

**Lot No. 189.** We have one mile of wrought Iron Fence in excellent condition, 45" high x 54" long, 45" high x 43" long, 45" high x 32" long. Price per lineal ft. .... **\$0.25**

**HERRING'S PATENT CHAMPION JEWELERS SAFE**

**Lot No. 151.** Outside dimensions: width 66" height 88", depth 38". Inside dimensions: Width 51", height 62", depth 18", Strong Box with double combination lock: Width 44", height 15", depth 12", safe has double outside with five 1 1/2" cross and two 1 1/2" vertical lock bolts, and is fitted with combination lock. Weight approximately 10,200 pounds. Price ..... **\$750.00**

**MARBLE TILE**

**Lot No. 501.** White Marble Tile, 6"x6", sq. ft. .... **\$0.25**  
Tenn. Marble Tile, 6"x6", sq. ft. .... **.25**  
White Marble Tile, 8"x8", sq. ft. .... **.30**  
Marble Tile (as are), 12"x12", sq. ft. .... **.15**

**MANHOLES AND COVERS**

Will sell cheap.  
**Lot No. 186.** 25 1/2"x25 1/2" O. D. Covers, 20"x20", 3/4" thick, flange 2 1/2" 130 lbs.  
25 1/2"x25 1/2" O. D. Covers, 20"x20", 1 1/2" thick, flange 2 1/2", 186 lbs.  
70 do, 1 1/2" thick, 250 lbs.  
27"x29" O. D. Covers, 22"x24", 1 1/2" thick, flange 2", 150 lbs.  
36" square covers, 30" round hole, 3/4" thick, no covers.  
Round 18", 60 lbs., with covers.

**WHEEL BARROWS**

**Lot No. 431.** We have 50 second-hand wood tray wheelbarrows that are designed for bulky material. They are made of properly seasoned hard wood. Size of box at top 32" wide, at wheel end 29" wide, at handle 39" long. Size of box at bottom 15" wide, at wheel 18" wide, at handle, 21" long. The box is 21" deep at wheel, 11" deep at handles. Weight about 80 lbs. Made with steel wheel. Good S. H. condition. .... **\$2.00**

**FIRE HYDRANTS**

Good as new.  
**Lot No. 211.** 4" Pratt & Cady, single connection ..... **\$12.50**  
4" Pratt & Cady double connection. .... **13.50**  
4" Corey double connection. .... **13.50**  
8" Corey double connections. .... **17.50**  
8" Pratt & Cady double connections. .... **17.50**  
6" Hub and Corey. .... **17.50**  
All have 2 1/2" hose connections. 8" have 4" steamer connections, 4" have independent valves.  
**Lot No. B. 121.** Steamboat Ratchets, or Pulling and Pushing Jacks.

Size.	Price	Size	Price
18"x18"	\$4.00	24"x13"	\$8.00
24"x18"	4.50	28"x13"	8.50
30"x18"	4.75	30"x13"	9.00
36"x18"	5.00	36"x13"	9.25
18"x18"	7.50	48"x13"	10.00

**Lot No. A. 122.** We have the following galvanized sheets in stock, which we will sell very low:

18 sheets, 36"x96", 18 Ga.  
21 sheets, 30"x96", 18 Ga.  
10 sheets, 36"x84", 18 Ga.  
9 sheets, 30"x124", 18 Ga.  
29 sheets, 24"x96", 16 Ga.  
5 sheets, 30"x96", 12 Ga.  
14 sheets, 24"x96", 14 Ga.  
10 sheets, 30"x84", 18 Ga.  
20 sheets, 20"x96", 18 Ga.

**Lot No. B. 121.** 2,000 squares second-hand Steel Roofing 5' 9" long, 24" wide, 2 1/2" corr. light weight, free from nail holes, excellent condition, painted black both sides. Per 100 sq. ft. .... **\$1.10**

**Lot No. B. 101.** 100 new Steel Garden Rakes, selected handles, flat and solid heads, straight and curved teeth, your choice at each. .... **\$0.35**

**Lot No. H. 101.** 25 new standard Cant Hooks. Has malleable iron clasp and extension toe ring. The hook is of crucible cast steel, 3/4"x7-16", having heavy upset head and duck bill point, each. .... **\$0.50**

**DUMP CARTS**

**Lot No. C. 105.** 20 Contractors' Light Dump Carts, capacity 21 cu. ft. or 2500 lbs., weight 700 lbs., strong, substantial, durable, made throughout of hard wood, strongly bolted and braced. Specially adapted for the hardest usage in handling rock, gravel, clay and other heavy material. Size of inside of box 66" long. Size of inside of box 44" wide. Size of inside of box 12" deep. Wheels 54" diam. Hubs 9" diam., 12" long. Spokes 14 1/2". Best second growth oak tires 3" by 1/2", steel axle 2 1/2", square spindle 2 1/2"x10", wood axle bed 3 1/2"x8", shafts 2 1/2"x3 1/2", with heavy crossbar 2 1/2"x8". Excellent condition; just as good as new. .... **\$22.50**

**Lot No. C. 104.** Steel Coke Buggy, cap 31 c. ft., size of body 63" long on bottom, 57" long at top and 30" wide, 30" deep, wheels 34" diam., tire 2 1/2"x3". The door or end gate is hinged at top and is locked or released by turning the unlocking rod, extended under bottom and conveniently arranged to be operated by man holding buggy at handles. Weight about 975 lbs. .... **\$25.00**

**Lot No. C. 103.** 4 new Mineral or Charging Carts. The weight of load is directly over the axle and owing to the large diameter of the wheels, the load is easily carried and dumped. Body 40" long, 23 1/2" wide, 28 1/2" deep front, 30" deep at rear, made of No. 8 steel with corner angles. Has 1 1/2" square axle passing through center of body and is firmly supported by 2 re-enforcing plates. The body is mounted on 2 sarvers, patent wooden wheels, 50" diameter. Weight about 550 lbs. Each. .... **\$20.00**

**Lot No. C. 102.** New Steel Side Dump Pull Car, not intended to run on track, wheels being flat. It has drop gate on one side only. Box 61" long, 37" wide, 24" deep. Diam. of wheels 18", width of wheel 3", distance from center to center of wheels 31". .... **\$25.00**

**Lot No. C. 101.** New Standard Steel Sugar Car, stationary box top, is finished with rolled rim, box 60"x40" inside at top, box 40"x20" inside at bottom. Depth 29", capacity 27 cu. ft. Gauge of track 30". Weighs about 1000 lbs. .... **\$25.00**

**Lot No. 29.** Cast Iron Kettle, 40" in diameter, 20" deep, 1 1/2" thick. .... **\$15.00**

**Lot No. 7.** Cast Iron Round Bottom Kettles, 52" diameter, 24" deep, 3/4" thick. .... **\$23.00**

**Lot No. M. B. 120.** 1000 2 1/2" second hand Manila Rope, good as new, used only on one job, per ft. .... **\$0.10**

**Lot No. W. B. 5000.** 1 1/2" second-hand Wire Rope, excellent condition, per foot. .... **\$0.10**

**Lot No. I. C. 120.** 500' 1 1/2" straight link Iron Chains, good as new, per ft. .... **\$0.35**

**Lot No. W. L. 120.** No. 5 Irwin & Welch Second Water Lift, fine condition. .... **\$20.00**

**Lot No. T. 501.** Glycerine Drums, second-hand, good as new. Price. .... **\$7.00**  
Size 32"x44" ..... **7.00**  
Size 30"x46" ..... **7.00**  
Size 30"x48" ..... **7.50**

**Lot No. 129.** 20" Farm Bells, worked by wheels. .... **\$3.50**

**Lot No. 132.** 24" Farm Bells. .... **4.00**

**Lot No. 135.** 14"x6" Elevator Buckets, heavy gauge, second-hand, excellent condition, each. .... **\$0.25**

**Lot No. C. D. 121.** Street Car Doors, 2' 4" wide, 5' 11" high, glass 20"x33". .... **\$1.00**

**Lot No. C. W. 122.** Street Car Windows 27" wide, 25" high, glass 21"x29". .... **\$0.50**

**Lot No. C. S. 123.** Street Car Sash, 38"x28", glass 20"x33". .... **\$0.60**

**Lot No. C. S. 124.** Street Car Shutters, 20 1/2"x29", stationary slats. .... **\$0.25**

**Lot No. C. G. 125.** Street Car Folding Gates 2' high x 41" over all. .... **\$1.00**

**Lot No. I. T. 141.** Spiral Stairway, 14' 8" high, platform 4' 6" x 3' 3", 12" high, second-hand, ask for blue print. .... **\$125.00**

**Lot No. V. D. 101.** Vault Doors and Frames of all sizes, kind and makes. Excellent condition, good as new. Send us a list of your wants.

**Lot No. S. C. 128.** Sidewalk Covers 16 1/2" diam., complete with lid and ring, plain lid. No Bulls Eye. .... **\$1.50**

**STEEL DUMP CARS**

**Lot No. S. C. 187.** We have on hand 100 Steel Dump Cars, manufactured by the Sheffield Car Co. These cars are side and end dump. They are 20" wide and 46" long, by 26" deep and 16" gauge. Being on a rotary platform, they can be dumped at either side or end. They are dumped by a foot trip, and door is opened by lever in rear. Capacity from 12 to 15 cubic feet. They are suitable for hauling ore. These cars have been used, but are in good condition. Weight approximately 600 lbs. each. .... **\$17.50**

**CAR WHEELS**

**Lot No. 170.** We have 80 sets of good Car Wheels, size 13", gauge 23" diameter of wheel 13", size of axle, 2", journals 1 1/2" per set. .... **\$10.50**

**CAR TRUCKS AND WHEELS**

**Lot No. 171.** We offer 600 sets of second-hand Car Trucks in good condition, as per illustration. These trucks are of standard gauge, 4' 8" diameter of wheels 31", diameter of axle 2 1/2". The boxes are fitted with brass journals. These trucks are suitable for construction of cars of various kinds and are especially desirable for quarry or lumber trucks or other purposes where more than an ordinary heavy truck is used. Weight per set, about 2,100 lbs. The set includes four wheels, the wheels being fast to the axles, two axles and four boxes. Price per set. .... **\$35.00**

**Lot No. M. 47.** 100 Cast Iron Coal Hole Covers, with bulls' eye glass; round and octagon shapes; any size desired. Write for complete list and low prices.

**Lot No. M. 3517.** 50' of 12" Spiral Conveyor. 200' of 10" Spiral Conveyor. 200' of 8" Spiral Conveyor. 100' of 6" Spiral Conveyor.

**STREET CAR GONG BELLS**

**Lot No. S. B. 401.** Two hundred Gongs that were used on street cars which we dismantled and are in first class condition in every way.

The bell is 9 inches in diameter and the castings for fastening are 9 1/2" long. They are strongly

built. Will give good general service. The bell proper is made of a special steel bell metal and gives a good strong sound. Price each .... **\$1.75**

**CAR WHEELS**

**Lot No. C. W. 101.** 100 sets Car Wheels, 8" diameter wheel, 3" face, 16" gauge, 1 7/16" shaft. Wheels run loose on shaft, mounted on two pieces of angle iron, 3"x3"x1/2". Complete set, consisting of four wheels, 2 axles and 2 pieces of angle iron. .... **\$4.50**

**STALL GUARDS**

**Lot No. S. G. 402.** Stall Guards 9' 2" long and 2' 9" high. They are made of 1 1/2" round iron bars 2 1/2" apart. The frame is made of 1 1/2" flat iron 1 1/2" thick. Weighs about 100 lbs. .... **\$2.50**

**Lot No. 403.** Sliding Poles for Fire Engine Houses, 22' 8" long, 2 1/2" diameter, with acorn ornaments on top. .... **\$13.50**

**ONE SECOND-HAND HALL SAFE**

**Lot No. 152.** Outside dimensions: Width 66", height 85", depth 40". Inside dimensions: Width 52", height 60", depth 23", strong box: width 40", height 28", depth 14". Fitted with double combination lock. Safe has double inside doors, fitted with two 1 1/2" cross lock bolts, two 1 1/2" vertical lock bolts and key lock. Double outside door is fitted with four 1 1/2" cross lock bolts and two 1 1/2" vertical lock bolts and combination lock. Approximate weight 13,000 pounds. .... **\$500.00**

**Lot No. 188.** 1 square Manhole Cover, 31" frame square, side 25", square 13" high, 520 lbs.

**MIXED PIPE FITTINGS**

**No. 4-A-1523.** One lot of malleable pipe fittings. Most of them are second-hand, some are galvanized but most of them are black. We do not distinguish. They range in size from about 3/4" to 3" including elbows, tees, crosses and in fact a general assortment of fittings. We sell them just as they come.

Price, per lb. .... **\$0.05**  
Price, per lb. in lots of 50 lbs. .... **.04**  
Price, per lb. in lots of 100 lbs. .... **.03**  
Special prices in larger quantities.

**CAST IRON WASHERS**

**No. 4-A-1524.** A carload of standard Cast Iron Washers in sizes ranging from 3/8" to 1 1/2" in bolts. These washers we furnish in mixed lots only.

Price per lb. in 500 lb. lots. .... **\$0.011**  
Price, per lb. in smaller quantities. .... **.011**  
Six ton Chain Hoist 12' lift, manufactured by Harris Machine Co., practically as good as new. .... **\$75.00**

Dutch Oven Front 52" high, 72" long, complete with doors. .... **\$15.00**

Iron Grating for Sidewalk, 4' wide, 6' long, made of 2 1/2"x3/4" iron sq. ft. .... **\$12.00**

**Lot No. 301.** 50 sq. ft. red covered suction Hose, 1 1/2" complete with auto, brass couplings, brand new. .... **\$12.00**

**Lot No. 302.** 15' 3 1/2" wire lined suction Hose, shopworn only, enlarged ends, per foot. .... **\$1.25**

**SIDE DUMPING CARS FOR OVERHEAD TRAMRAIL**

**Lot No. D. C. 166.** This car is used on overhead tracks for handling coal and other material. It has a door on each side, which is opened and closed by hand, with a lever or if desired can be arranged to operate automatically. The bottom is inclined both ways, which permits the load to be dumped on both sides of the track. When it is desired to have the load dumped on one side only, it is fitted with a movable centerpiece, which is arranged in such a manner that it can instantly be shifted from side to side, or removed altogether when not required.

No. of car.	Capacity in tons.	Width in inches.	Height top of rail in inches.
263	1	54	50
264	1 1/2	60	54
265	2	72	56
Length over all.	Diameter of wheels.	Wheel Base.	Gauge of tracks.
86"	18"	30"	28"
86"	18"	32"	30"
96"	18"	36"	36"

Price.  
Size 263 ..... **\$50.00**  
Size 264 ..... **55.00**  
Size 265 ..... **60.00**

**Lot No. A. H. 10.** 5,000 square feet 12"x12" Marble Floor Tile, consisting of White Italian Marble, black marble and red Tennessee marble. We can make up floors from this in alternate blocks of white and black and white and red, or in the proportion of one block of red to four of white; good as new; redressed, refinished and repolished per square foot. .... **\$0.35**

**Lot No. A. H. 11.** 3,000 square feet White Italian Marble Wainscoting, some 34" high, some 38" high, and some 6' to 8' high. This wainscoting will be repolished and blocks trimmed to fit your space, according to plans, at \$0.60 per square foot in 5' or less in height, and \$1.00 per square foot for over 5' in height.



# A Remarkable Purchase!

OF HIGH GRADE

Railroad Generators High-Class Engines

Horizontal Tubular Boilers

Switch Board Instruments

Pumps, Pipe, Copper Wire, Etc.

Secured in connection with our purchase of the complete Electrical Power Generating Stations of the

## CHICAGO CITY RAILWAY

When, recently the **Chicago City Railway Co.** completed arrangements whereby they secured their power from the Edison Central Stations, therefore dispensing with their various power plants, it was but natural that the **Chicago House Wrecking Co.** should become the purchasers and thus the possessors of these high grade power generating plants. **Our fame as contractors on original and large lines is world wide,** and this purchase but adds another achievement to our great ones of the past.

We bought these plants outright and in offering them to the public we wish first to impress fully upon you that they are not delapidated or worn out, that the **machinery is up-to-date and that it is in first-class condition.**

We have several months in which to complete the sale of these plants. We offer the material of these power plants either complete, or we will sell the engines, generators, boilers or other machinery and parts separately. Our policy is one of action and when we say that the **material will be offered on the basis of our usual low prices,** it means that there will be a scene of activity around these plants and that it will be but a short time until everything is sold.

We urge that you take immediate notice of this offer and that you **come to Chicago or send your representative at once and allow us the privilege of showing you through these plants.** We are sure that it will be to your advantage to do this at once. Bargains like these are not met with every day. As a rule when second hand machinery is sold it represents material that has been discarded and has served its time and purpose. The contrary being the case in the present instance makes us all the more anxious to fully impress you with this timely offer. Come at once in justice to yourself, as well as to us. In connection with this purchase we wish to call your special attention to the following list of material which came into our possession as a result of same.

- |   |  |
|---|--|
| 4 36x60 Single Cylinder Wheelock Engines  | 1 400 K.W. General Electric D.C. Generator, 100 volt, 300 R.P.M. |
| 2 32x60, Single Cylinder Wheelock Engines direct connected to 650 K.W. General Electric 520 and 575 Volt Generators | 1 8x10, D.C. Hoisting Engines                                    |
| 20 78x20, John Mohr Tubular Boilers with Murphy Furnaces  | 1 1 in. Power Drill Press  |
| 2 Complete Switch Boards  | 2 1000 H.P. Hamler Feed Water Heaters                            |
| 2 8x12 Erie Slide Valve Engines   | 1 1500 H.P. Hamler Feed Water Heater                             |
| 1 7x10 " " "  | 2 F. C. Wells Single Acting Pumps.                               |



# Victor Talking Machines At The Lowest Prices

**Freight Prepaid  
7 DAYS'  
TRIAL**



Clearlest, loudest, simplest, and positively the best disc talking machine yet manufactured. Recognized by the greatest musical artists and conservatories of music as being mechanically perfect. Absolutely guaranteed. You obtain unlimited entertainment in your own home by the World's greatest singers; orchestras; bands; instrumental solos and duets by renowned musicians; beautiful sacred music by celebrated choirs; the dear old songs of heart and home; the latest popular airs; dance music; the best comedy specialties, etc. You are able to hear anything you wish, **whenever you wish.** 7 days' trial privilege.

**\$10.00**



**"VICTOR JUNIOR."** A genuine Victor at the lowest price ever offered. The cabinet is golden oak excellently finished with heavy projecting base. The motor has a very strong spring and will play two records with one winding. The sound box is fitted with a mica diaphragm and will produce loud clear tones of surprising quality, size and price considered. It has an 8 inch turntable and will play any size records. Can be wound while playing. Fitted with nickel plated combination brake and speed regulator. Has a handsome 8 inch flower horn of mahogany finish with gold stripes. Furnished with 200 needles. Weight 28 lbs.

**No. 1-A-535.** Price, freight prepaid... **\$10.00**

**\$17.50**



**"VICTOR O."** A new style fitted with a genuine tapering hollow arm and other special improvements. The cabinet is 10½ inches square and 5½ inches high, beautifully finished in mahogany. Fitted with nickel plated brake, speed regulator, winding key, turntable rim, tone arm, and esoutcheon. Spiral driven spring motor of extra quality. Can be wound while playing. Exhibition sound box and mica diaphragm. The large 16 inch flower horn is of a soft amber hue edged and striped with the amber. The swinging elbow permits the arm being turned in any direction. Will play all size records.

**No. 1-A-536.** Victor Talking Machine equipped as above with 200 needles. Weight 40 lbs. Price, prepaid... **\$17.50**

**\$25.00**



**"VICTOR I."** A high class instrument. The cabinet is 5½ inches high and 12 inches square. Made of selected quartered oak, golden finish. Nickel plated hollow tapering arm, speed regulator, combination brake, etc. 8 inch turntable. Spiral driven motor, genuine exhibition sound box, fitted with an ebony finished horn edged and striped with gold. (17 inches in diameter.)

**No. 1-A-537.** Victor First Talking Machine equipped as described above with 200 needles and two part needle box for new and used needles. Weight 45 lbs. Price, prepaid **\$25.00**

**\$32.50**



**"VICTOR II."** New improved model. Concert size of the better quality. The cabinet is of quarter sawed oak with hinged top, 13½ inches square, and 6½ inches high. Nickel plated brake, speed regulator, winding key, etc. Extra heavy spiral driven spring. Plays 3 10 in. records with one winding. 10 inch turntable for all sized records. Exhibition Sound box. 19 inch bell flower horn, ebony finished with gold stripes. A fine machine, suitable for residence, hall, ball room, etc.

**No. 1-A-538.** Victor Second, as described above, with 200 needles and 2 part needle box. Weight 50 lbs. Price, freight prepaid... **\$32.50**

## VICTROLAS.



Write for booklet of Victrolas and concert size Victors, showing illustrations in actual colors, and giving complete descriptions.

**Needles 6 cents per 100.**

Send for complete list of records published, also send us your name for our monthly mailing list of new records.

## Victor Double Faced Records.

Two selections for one price

All of the following are double faced 10 inch disc records, one selection on each side. As well as some old time favorites, showing in part the immense variety obtainable to suit you. Complete list mailed on request.

**75 cents**  
We list below a few recent selections to suit you. Each record plays six minutes.

	Selection	Player
Concertina Solo	Amoureuse Waltz	P. Frosini
Ocarina	The Swiss Shepherd	Tapiero
Indian Duet	Blue Feather	Jones & Murray
Darkey Shakedown	Run, Brudder Possum, Run	Collins & Harlau
Solo	The Yankiana Rag	Murray
Stories	A Couple of Good Ones	Whitney
Mandolin Harp	Polka Scherzo	Page & Butin
Cornet Duet	Semprena Waltz	Clark & Keneke
Orchestra	Corn Huskin' Barn Dance	Victor Orchestra
Band	"Stubborn Cinderella" Selection	Pryor
Sacred Quartette	Home of the Soul	Whitney Bros.
Sacred Duet	I Am Praying for You	Stanley & Burr
Duet	I Cannot Sing the Old Songs	Mr. & Mrs. Wheeler
Quartette	Forsaken	Whitney Bros.
Southern Sketch	Mammy Chloe and Her Joe	Jones-Spencer
Irish Ballad	Kitty Magee	Whitney
March and Two-step	Berlin Echoes	Victor
Waltz	Chiribiribin	Orchestra
Sacred Hymn	Eternity	Whitney Quartette
Sacred Reading	Twenty-Third Psalm and Lord's Prayer	
Sentimental Song	Don't be an Old Maid, Molly	Hadyn
Comic Song	Red Head	Ada Jones
Monologue	Experiences in the Show Business	Charley Case
Comic Song	Foolish Questions	Billy Murray
Old War Song	The Vacant Chair	Hadyn Quartette
Old Time Song Duet	When You and I Were Young, Maggie	MacDonough-Wheeler
Rag Time Two-Step	Black and White	Victor Orchestra
Cornet-Flute Duet	The Land of the Swallows	Clarke-Lyons
Coon Song	That's the Doctor, Bill	Eddie Morton
Burlesque	At the Comic Opera	Nat. M. Wills
Yodling Song Guitar	Julie	Ward Barton
Monologue	His Day's Work Was Done	James Devins
Cornet Solo	La Vela	Herbert L. Clark
Mandolin Harp Guitar	Typica Polka	Page & Ramseyer
Piccolo Solo	Flowers and Butterflies	Darius Lyons
Cornet Duet	Sounds from Austria	Clark & Keneke
Saxophone	Carnival of Venice	Moeremans
Piccolo	Sylvia	Lyons
Drum, Fife and Bugle	War Songs, March	Victor Corps
Orchestra	Estudiantina Waltz	Victor Orchestra
Xylophone	Gate City March	Reitz
Flute	Nightingale	Lyon
Solo	Good Old Dollar Bill	Murray
Minstrels	Minstrel Selections No. 16	Victor Company

**75 cents**  
A Special Booklet of instructions accompanies each machine, explaining the operation and care of the different machines. It also explains how to obtain the celebrated Victor tone.

The world's greatest bands, orchestras, soloists and vocal artists are constantly making new records for the Victor talking machine, and every owner of one of these instruments possesses a versatility of entertainment to be had in no other way.

Only the best material is used in any part of the Victor. Every part of the noiseless, even running motor is built to gauge and is interchangeable. Every part is calculated and tested for endurance and strength. The steel is made to special analysis.

The Victor sound box stands at the top among the world's greatest inventions and is a wonderful piece of mechanism, performing, as it does, an actual human function in the "true to life" reproduction of every tone of the human voice, or any collection of sounds. It is really more wonderful than the vocal cords, as it reproduces any sound or collection of sounds, at any range, pitch, or register, whether vocal, instrumental or mechanical.

Send for Special List of Grand Opera Selections



# LINOLEUM.

Complete Descriptions of Linoleums Shown on Page 330. Instructions as to Care and Laying of Linoleums See Note at Bottom of this Page.

**No. 23-A-380.** An unusually good grade of print linoleum in the newest and most desirable pattern and coloring. This quality of goods is sold usually at about double our price. If you need a good quality of print linoleum for your kitchen, etc., don't hesitate to order this pattern. When ordering be sure and give exact size of your room so that we may cut the linoleum to the best advantage. Made full 6 ft. wide. Price per square yard.....39c

**No. 23-A-381.** A good grade of print linoleum in a new, neat and desirable tile effect. This is a quality of goods that would be sold in the regular way at just double our price and is a bargain that we recommend in every way. Don't confuse this extra heavy quality of linoleum with the thin, worthless oil cloth offered by some dealers at about this price. This is positively the best value ever offered at anything like this price. When ordering be sure and give full size of your room that we may cut the linoleum to the best advantage. Made full 6 ft. wide. Price per square yard.....39c

**No. 23-A-382.** A new and beautiful pattern, especially suitable for kitchen, dining room, etc. An extra heavy grade linoleum and one that is guaranteed to give first class service. The medium shades of brown and tan used in this pattern make it an exceptionally desirable one for general use. It is a medium color effect that will show neither soil nor dust and is in every way a serviceable, desirable piece of merchandise. At the extremely low price we offer this goods you can make no mistake in buying this. When you order, be sure and give full and exact measurement of your room so that we may cut to the best advantage. Made full 6 ft. wide. Price, per square yard.....39c

**No. 23-A-383.** This is a heavier grade and an extra quality of print linoleum in one of the newest and most desirable color effects. No matter what space you have to cover, you will find this handsome pattern suitable in every way. We recommend this pattern strongly on account of its beauty and wearing qualities. Made full 6 ft. wide. Price per square yard.....41c

**No. 23-A-384.** This new and handsome pattern in a neat tile effect is most suitable for general use and is especially desirable where small neat effects are wanted. This is of a special heavy quality and extra good print and is in every way a thoroughly good piece of linoleum. Our price is just about one-half the regular retail price and we are in a position to supply you new and perfect goods without a moment's delay. When ordering, be sure and send size of your room, so we may cut to the best advantage. Full 6 ft. wide. Price per square yard.....41c

**No. 23-A-385.** An exact reproduction of a parquet inlaid floor in an extra good grade of print linoleum. This is suitable for rooms, offices, etc., and also very desirable for rug borders, giving the same effect as an inlaid floor where the margin is desired around a rug. We are prepared to fill orders on this unusual bargain at a moment's notice and we guarantee to save you fully one-third to one-half on the regular retail price. When ordering, be sure and give exact measurements of the spaces you wish covered. Made full 6 ft. wide. Price per square yard.....46c

**No. 23-A-386.** This is a new and beautiful pattern in a new and heavy grade of print linoleum. Can be supplied without delay either 6 ft. or 7 ft. 6 inches wide at the same price per square yard. Where it is advisable in covering rooms we use both widths, thus saving seams, cross joints, patches etc. At our extremely low price of 44 cents per square yard, this is without question the greatest bargain to be had in this line of goods. We recommend this as one of our best bargains and is one that we are sure will meet with the entire satisfaction of the most critical purchaser. When ordering be sure and give full size of your room and state which way the breaths should run. Either 6 or 7 ft. 6 inches wide. Price per square yard.....44c

**No. 23-A-387.** A handsome pattern and the best quality of print linoleum is the rare combination we offer under this number. Made in either 6 or 12 ft. widths. New and perfect in every way and at a price that defies all competition. 6 ft. wide, price per square yard.....58c  
12 ft. wide, price per square yard.....64c

**No. 23-A-388.** Another beautiful pattern in our best grade of print linoleum at a genuine bargain price. This design is one of the newest and most popular effects. Through a fortunate purchase of

the entire stock of one of the best known mills in this country we are able to offer you this extreme bargain without delay. Comes either 6 or 12 ft. wide and can be supplied in any number of yards desired. When ordering please give exact size of space to be covered. Price per square yard, 5 ft. wide.....18c  
Price per square yard, 12 ft. wide.....64c

**No. 23-A-389.** An exceptional bargain in one of the new inlaid floor effects in the heaviest and best quality of print linoleum. Can be supplied either 2 or 4 yards wide. This is an exact reproduction of the handsome graining and colors of a quarter sawed wood floor and comprises a floor covering which is practically indestructible at a price far below its regular value. Either 6 or 12 ft. wide. When ordering be sure and give full size and a plan of the floor you wish to cover so that we may cut to the best advantage. Price 6 ft. wide, per square yard.....47c  
Price per square yard, 12 ft. wide.....62c

**No. 23-A-390.** Our colored illustration represents the best effect in a blue and white tile linoleum. This is made of an extra heavy quality and the best print, the blocks being 2 inches square. This is specially suitable for bath rooms, etc., and is the cleanest effect that can be had in a floor covering. Our bargain price on this best grade of print linoleum means a saving to you of fully one-half to one-third and at the same time supply you with the best and most desirable merchandise the market affords. When ordering please give full size of the room so that we may cut to the best advantage in every case. Made 6 ft. wide only. Price per square yard.....47c

**No. 23-A-391.** Best quality of print linoleum, either 2 or 4 yards wide. This reproduction shows the coloring and design exactly as it comes in these high class goods. No matter what you pay or where you buy, a better piece of goods in print linoleum cannot be obtained. The colors are in medium shades of green, tan, red and brown. When ordering please give the full size of room so that we may cut to the best advantage. 6 ft. wide, price per square yard.....47c  
12 ft. wide, price per square yard.....62c

**No. 23-A-392.** The corresponding coloring on page 330 shows the most desirable and inexpensive genuine inlaid granite linoleum on the market. Every color in this heavy grade of goods goes clear through to the back and no matter how long this goods is worn the colors will be new, clean and fresh. For stores, offices, etc., you cannot buy a better article and at our extremely low price the purchase of this goods, means a saving to you of about one-half the regular value. Made 6 ft. wide only. Price per square yard.....65c

**No. 23-A-393.** Another of our extra quality of genuine inlaid granite linoleums. This can be furnished in the exact shade of rich brown in the illustration on page 330. Every color on this serviceable goods, goes clear through to the back and as long as there is any wearing surface left the colors are exactly as when new. Our extremely low price of 65c per square yard means a saving to the purchaser of about one-half. All these come full 6 ft. wide. Price per square yard.....65c

**No. 23-A-394.** The coloring illustrated on page 330 to correspond with this number shows the exact colors of our genuine granite inlaid linoleum. This combination of mixed blues, is especially suitable for stores, etc., where a medium coloring is desired. As to wear, there is absolutely none better on the market and at our extremely low price of 65c. per square yard you can make no mistake in placing your order at once, as when our present stock is exhausted the prices are certain to advance. Made 6 ft. wide only. Price per square yard.....65c

**No. 23-A-395.** The corresponding illustration showing the exact colors on page 330 of our colored section represents a new and beautiful tile pattern in a genuine inlaid linoleum. This goods is known the world over for its extreme wearing qualities and is especially suitable where long hard wear is required. Our extremely low price of 83 cents per square yard will save you from 40 to 50 cents on each yard of goods you buy. When ordering please give the exact dimensions of the space you wish to cover and we will cut to the best advantage. Made 6 ft. wide only. Price per square yard.....83c

**No. 23-A-396.** Another illustration showing our heavy quality inlaid linoleum in one of the newest and most desirable tile effect made. This pattern is especially suitable for general use and is

one that will give any amount of hard service. On this grade of goods we are in a position to undersell regular dealers from 40 to 50 per cent. and can supply new, perfect, desirable merchandise at this saving to you if your order is placed at once. When ordering be sure and give exact size of the space you wish to cover, so that we may cut to the best advantage. For special instructions regarding laying, etc., see note at the bottom of this page. Price per square yard.....83c

**No. 23-A-397.** The corresponding illustration on page 330 of our color section shows the exact design and coloring of the new and handsome parquet floor effect in an extra heavy quality of inlaid linoleum. Every color goes through to the back and will always be seen as shown in the illustration. At the extremely low price we offer this exceptionally heavy quality of inlaid linoleum you will be in a position to save at least 50 cents per square yard and at the same time procure the handsomest and most desirable pattern manufactured in this line. Made 6 ft. wide only. Price per square yard.....93c

**No. 23-A-398.** This well known pattern can be supplied in any quantity desired. This design is suitable for stores, offices, etc., and is one that will give an unlimited amount of hard service. We positively guarantee this to be the best bargain in linoleum to be had. Place your order at once as our stock is limited and if the present supply is exhausted there will doubtless be a material advance in prices. Made 6 ft. wide only. Price per square yard.....93c

**No. 23-A-399.** A new and beautiful blue and white tile effect in an extra heavy grade of inlaid linoleum. Too much could not be said of its beauty and quality. We recommend it in every case where a neat clean effect is desired. Each color is inlaid, exactly like tile and is practically indestructible. We are prepared to offer you this excellent goods at a saving of fully 50 cents per square yard to every purchaser. Order at once as there will doubtless be an advance in price after the exhaustion of our present stock. 6 ft. wide only. Price per square yard.....93c

**No. 23-A-400.** The corresponding illustration of our color section represents the best quality of inlaid linoleum manufactured. At our extremely low price of 97 cents per square yard this is the best value in this high class merchandise ever offered by any one. When ordering be sure and give the full size of the space to be covered so that we may quote to the best advantage. Made 6 ft. wide only. Price per square yard.....97c

## SPECIAL INSTRUCTIONS FOR CARING FOR AND LAYING LINOLEUM.

When laying linoleum, cut the goods to fit the room, leaving a margin of about one-eighth (1/8) inch between the linoleum and the wall of all widths. Linoleums are apt to blister and stretch and if this stretching space is left they can eventually be laid without risk. After cutting the linoleum as above suggested, tack here and there in front of the doors, etc., so the edges will not curl or break and leave it this way for about 10 days and by that time the goods will have stretched to its proper shape. Before laying be sure that the floor is dry, smooth and clean and you will find your linoleum will give better service in every case.

In the use of print linoleums if you will varnish the wearing surface once or twice a year you will find that the life of the linoleum can be almost doubled. This is to be done, of course, after the goods have taken their place on the floor.

In cold weather be careful not to unroll linoleum when cold as the pulp used in the manufacture of linoleum is very sensitive and will crack if unrolled when cold. If the linoleum should start to crack stop immediately and put in a warm room until the goods become perfectly pliable.

In every case possible it is advisable to cement linoleums to the floor with a cement made for that purpose. This not only keeps the linoleum even on the floor but prevents water from getting underneath.

Be careful in handling linoleum for if dropped the weight of the goods is apt to crack it. In filling your order for linoleum we will cut the goods in widths to match in every case where it is advisable. We sometimes find it necessary to add a small amount of yardage for matching of goods and where customers have made a mistake in calculations, this we will do in every case where it is necessary, but will always explain our reason for doing so. If the above instructions are carried out your linoleum will prove satisfactory in every way.



# Read This Page of Information Carefully It Is of Priceless Value to All Furniture Purchasers

## QUALITY.

The quality of the furniture which we illustrate and describe in this catalog is of the highest character. Every piece is guaranteed absolutely brand new and perfect. Every article is sold under an absolutely binding guarantee of perfect satisfaction. (See introduction to this catalog.)

## K. D. SHIPMENTS.

By this expression we mean, furniture shipped knocked down or taken apart and carefully packed so as to secure minimum freight charges and avoid any possibility of damage occurring during transit. Any article described as shipped K. D. is of such construction that it can be easily and instantly assembled and firmly set together by even the most inexperienced person.

## CARE IN SHIPPING.

After your order is received and entered and has been selected by our expert pickers, it is placed in our inspection department, where skilled cabinet makers go over each piece so as to see that every detail is perfect. They see that all drawers, removable parts, etc. are intact, after shipment to us from the original point of purchase, smoothing such parts as stick or bind, after which they undergo another inspection to see that no blisters, white spots or imperfections due to exposures or atmospheric conditions, are on any of the pieces. If any piece is slightly dulled in luster, we revarnish it, free of charge. The spot may be underneath the piece or in some place where it will not be seen, but at the same time we want to hold the confidence of our customers and consequently spend extra time and money seeing that each piece when shipped is in such a condition that it will exceed the utmost expectations of customer.

## REFINISHING.

Or, matching a piece of furniture to the exact shade, etc., desired, will be done, if possible, when specified, free of charge. It is always possible to make golden oak darker, such as Fumed oak, Antwerp oak, weathered oak, and Early English finishes. As stated we make absolutely no charge whatever for this work, not even for the material, but do it in the spare time of our workmen. It, however, means a considerable delay, generally from one to three weeks. We have, however, installed this special feature to accommodate any of our customers who have special wishes with reference to the finishing of goods they order.

## VENEERING.

Cross laid, 3 ply, 5 ply, and built-up stock, means choice grained selected stock of the various woods named which have been run through a special machine with keen knives, shaving it in thin rolls after which it is placed on furniture, producing beautiful figured effects that would be impossible otherwise. For instance, curved and irregular surfaces which cannot be made of solid wood and appear beautiful in graining, are veneered. If skilled workmen be employed and the best of stock used, as is done on all furniture which we list as veneered, you can rely upon it, that the veneering is even better than the solid stock and positively will not warp, peel or crack.

## WEIGHTS.

All weights given on furniture are approximate weights. Same articles crated or boxed for shipment will scarcely over-weigh the amount we state, except in a few instances.

## FIGURED OAK.

The term figured oak is plain oak, selected from the choicest grained stock. This wood has very pretty figured effects when made into furniture by skilled workmen. All furniture herein specified as plain oak, consists of the better quality.

## QUARTER SAWED OAK.

Quarter sawed oak means oak, quarter sawed so as to show up to the best advantage the beautiful figured effects in the wood. We recommend quarter-sawed oak in preference to plain oak, as it is much handsomer and adds to a piece of furniture a richer appearance than can be obtained by the use of plain oak alone.

## AMERICAN QUARTER SAWED OAK.

American quarter-sawed oak is perfectly seasoned hardwood finished with a large quarter sawed oak graining, so as to give it the appearance of genuine quarter-sawed oak. To all intent it is exactly the same in appearance. In other words, it is an imitation quarter-sawed effect, grained in a most realistic manner.

## BIRCH, MAHOGANY.

All pieces of furniture in this catalog made of Birch, are selected only from the choicest grades of Northern Birch. All stock was carefully seasoned and kiln dried before being constructed into furniture. Every piece is carefully inspected so that only the best stock was used in its manufacture. The finish is of dark brown luster, same shade as genuine mahogany. It is the nearest imitation to genuine mahogany yet found. All of the most prominent and reputable furniture manufacturers use it extensively and it is found in some of the very finest and costliest furniture.

## CUBAN MAHOGANY.

Cuban Mahogany means genuine stripped mahogany with the finest and choicest graining. The majority of pieces which we describe as being constructed of this quality wood are veneered, which means that only the richest part of the grain shows up. This is a most beautiful finish and cannot be compared in beauty to any other wood where a dark finish is wanted.

## WHITE WOOD.

This is a good wood for unfinished surfaces, such as the top of kitchen cabinets, etc. This wood is of course unfinished and can be scraped, washed and easily cleaned. All pieces of this wood, which we have described, have been selected from carefully seasoned stock.

## SATIN WALNUT.

This wood is otherwise known as American Red Gum, so universally used by this country's most prominent manufacturers of high priced furniture. This wood is subjected to a new steaming and seasoning process, which positively prevents warping and assists in bringing out the beautiful graining of this wood. It is rapidly coming into favor and popularity for all sorts of fine furniture.

## IMITATION LEATHER.

Chase Leather, Boston Leather, Nantucket Leather, Pantasote Leather, Pullman Leather, Empire Leather, etc., are the various kinds of good imitation leather. The imitation is so perfect that it is almost impossible to detect it from the genuine article except upon very close examination. All of these imitations are about the same, each maker claiming slight advantages over his product. All of them are far superior to split leather which is the inferior quality leather and is practically worthless for upholstered goods. We do not under any circumstances sanction the use of split leather except for minor purposes, such as chair seats and other articles which are not tufted.

## GENUINE LEATHER.

Genuine Leather, such as is used in the upholstering of the various pieces herein, is of good quality, selected from the best part of the hide. We do not classify split leather under this term and so misrepresent it as a good many unscrupulous dealers do. Although split leather is genuine leather, it is not practical for upholstering purposes, as it is bound to peel and crack within a very short time. Remember, in buying upholstered furniture from us, described as covered with genuine leather, you are securing a good quality of the real article and no worthless grade of the split article.



# FURNITURE, CARPETS, RUGS

## AND OFFICE FURNITURE

OF all the great departments of our enormous institution none is greater than that devoted to the sale of articles in this line.

We are constantly purchasing at "SHERIFFS' SALES"—"RECEIVERS' SALES"—"MANUFACTURERS' SALES"—"UNDERWRITERS' SALES" enormous quantities of high grade merchandise forced on the market through unfortunate business enterprises or from other unfortunate causes. We guarantee that every dollar's worth of merchandise in this department is strictly brand new and first-class. The opportunities for securing stocks are so great that we can easily discriminate and sell only the best of everything. If you are looking for cheap, shoddy furniture such as is regularly sold by department stores, mail order houses, etc., you will be disappointed because you will not find that class of merchandise in our catalog. On the following pages we have endeavored to tell the plain, straight facts in the case. We are not regularly devoted to the sale of any one particular line of merchandise and, unfortunately, perhaps, it does not make us adepts in any line.

### We Do Not Exaggerate

Our descriptions are plain, cold facts; no attempt to overdraw your imagination. Our goods are selected with an eye to city trade as well as to that of our out-of-town patrons. In Chicago our name is a synonym for quality and low prices. We have established an enormous patronage by giving the public of Chicago and elsewhere at least \$1.30 worth of goods for every dollar paid us. This is no idle boast, but it is a fact, that can be proven by hundreds and thousands of satisfied customers. You try us once, you will buy from us often.

### The Wide Range of Our Operations

Our stock embraces everything from linoleum at 27c per yard to the finest silk oriental and antique rugs, as high as \$1,500.00 each; that's only by way of comparison to show you the range of goods carried in this line. It's impossible for us to list every single article in this great furniture and rug department. It's an ever changing and panoramic merchandise story at all times. As you come to know us better, you will learn to appreciate all the wonderful opportunities of our business, and you will act quickly when these astonishing bargains of ours are called to your attention. Bargains wait for no man. It's the early buyer that gets the best bargains, and that's why we respectfully urge upon you a quick selection of any of the articles you will find in the following pages.

### Our Colortype Reproductions

At a great expense we illustrate reproductions of our beautiful rugs, showing their actual colors and designs. You cannot possibly go wrong in your selection, and it gives you a chance to purchase even though you are 3,000 miles away from us. You can buy from us with safety and confidence. OUR BINDING GUARANTEE is so strong that you are protected at all times. If you purchase any goods from us that are in any way different than our description, or that are not a faithful reproduction of the article described, you have our guarantee that we will either take back such merchandise or we will replace it, or take care of your reasonable complaint. We are looking only for satisfied customers. We know that's the way to build up our business and we faithfully observe every line that leads to real success. We advise in selecting any articles in this department that you give us first, second and third choice whenever possible, or outline your desires and place the matter of selection upon our shoulders. We will so select as to cause you as much satisfaction as possible. We know the value of a satisfied customer. If you want further information, write us.

### Sewing Machines (Write for booklet.)

We have just bought at Manufacturers' Sale, (whose name we cannot disclose on account of having agents throughout this country), over 7,000 brand new, high grade, guaranteed Sewing Machines, which we describe, illustrate and quote, at less than Manufacturers' cost, in our Sewing Machine Booklet. If you need a machine, write us for this Booklet and we urge all of our customers to take advantage of this sale.

### Oriental Rugs (Write for booklet.)

OUR ENORMOUS STOCK. With a great deal of satisfaction we introduce to you a stock of Oriental Rugs, such as you have never seen portrayed or offered by any concern in the world. You can buy from us, Rugs of the costliest weave, rarest specimens, suitable for the most magnificent homes or the wealthiest man's office, or we can fit out the housewife who cherishes a wish for a moderate priced Oriental Rug, for its beauty, for its wearing qualities, as it is conceded that the Oriental Rug is the most durable Rug with everlasting color, a loom ever produced.

PRICES. Not only can we please people in all walks of life on quality color and design in Oriental Rugs, but we can effect a saving of from 20 to 75%, from the fact that we buy our Rugs from Marine Wrecks, Underwriters' Sales and Bankrupt Importers' Stocks, which means that we secure our Rugs at practically half of their market value.

SIZES. We can furnish Oriental Rugs, both in Carpet sizes and small Rugs, as follows:

Carpet sizes, range from 6 ft. x 9 ft. up to 16 ft. x 30 ft. Small Rugs come, 1½ ft. to 5 ft. in width and 3½ ft. to 8 ft. in length. Hall Runners, come 2½ ft. to 4 ft. in width and 9 ft. to 30 ft. in length.

INFORMATION WE NEED. If you are interested and want prices on Oriental Rugs (as it is impossible to do justice to Oriental Rugs by quoting in a catalog), the following information is necessary before we will be able to quote you:

1. Write us the size of room that rugs are to be used in.
2. State the number of rugs you wish for each room, and if for a hall give us the dimension of the hall.
3. Tell us the colors that you wish to predominate.
4. Give us an idea of the price that you would expect to pay, and state the quality wanted.

And upon receipt of the above information our Oriental Rug experts will make selection accordingly, and we will write you a full description and quote you our very lowest prices which will mean a big saving to you.

RUGS UPON APPROVAL. We will ship to responsible parties anywhere in this country (after we have given you prices, description, etc.), one or more Oriental Rugs for inspection and approval, which will give you a better opportunity to make selection desired. And remember, we will guarantee to make you a saving of at least the retailer's profit. On rugs sent subject to approval it is definitely understood that the customer pays transportation charges both ways.

### Pianos and Organs (Write for booklet.)

No Branch in the Commercial World affords us more opportunity for making advantageous purchases at Receivers' and Manufacturers' Sales than in the Piano and Organ trade, and we can now give our customers the benefit of one of the most remarkable purchases ever made in this line. We are just completing a booklet, describing

### Our Great \$200,000 Piano and Organ Sale

secured as stated above, from the most reliable Manufacturers in this country and if you wish to make a saving of 25 to 60% on a Piano or Organ, now is the time to buy and don't delay sending for our special booklet, which gives you full particulars of some of the finest instruments ever made.

### Victor Talking Machines (Write for Catalog.)

We have installed a complete stock of Victor Talking Machines, Records and Supplies, to meet the many requests from our customers, and in preference to all other makes, we have selected the Victor, which is conceded to be the best Machine in every way or the market.

Our prices are the very lowest and with our complete stock, we can make immediate shipment of Machines, Records and Supplies. Write for our Victor Catalog, which contains prices and full descriptions. (Freight Prepaid to all Points in U. S. on "Victor Talking Machines.")



### Khorasan Smyrna Rug



**No. 23-A-300.** Reversible Smyrna rugs furnished in 5 sizes. Colorings and patterns are as handsome as can be made. Both sides are exactly alike and will make the best wearing inexpensive rug on the market at prices less than cost of manufacture.

Size 30 in. x 60 in. ....	\$0.75
Size 36 in. x 72 in. ....	1.50
Size 6 ft. x 9 ft. ....	3.65
Size 7 ft. 6 in. x 10 ft. 6 in. ....	5.25
Size 9 ft. x 12 ft. ....	7.25

### Khorasan Smyrna Rug



**No. 23-A-301.** This handsome Oriental design is a desirable rug in every way. Both sides are exactly alike in the newest combination of green and brown colorings. This is without any exception the best bargain to be had in this handsome floor covering.

Size 30 in. x 60 in. ....	\$0.75
Size 36 in. x 72 in. ....	1.50
Size 6 ft. x 9 ft. ....	3.65
Size 7 ft. 6 in. x 10 ft. 6 in. ....	5.25
Size 9 ft. x 12 ft. ....	7.25

### Kazak Brussels Rug



**No. 23-A-302.** An exceptionally good serviceable quality of wool Brussels; made in the newest and handsomest parlor pattern and one that will give absolute satisfaction in every way. These bargains we guarantee to be fully one-third less than regular values. Be sure and state size wanted when ordering.

Size 8 ft. 3 in. x 10 ft. 6 in. ....	\$ 8.60
Size 9 ft. x 12 ft. ....	10.50
Size 11 ft. 3 in. x 12 ft. ....	13.35

### Kazak Brussels Rug



**No. 23-A-303.** This elegant medallion Oriental pattern in a high-class wool-faced Brussels rug can be furnished exactly as shown in our illustration without delay. This rug comes in three sizes. Suitable for any large or medium size room. This matchless value represents our most sensational bargain. We know it is positively the best rug for the money obtainable.

Size 8 ft. 3 in. x 10 ft. 6 in. ....	\$ 8.60
Size 9 ft. x 12 ft. ....	10.50
Size 11 ft. 3 in. x 12 ft. ....	13.35

### Ghorevan Seamless Brussels Rug



**No. 23-A-304.** This shows our handsomest one-piece Brussels parlor rug. This extra heavy Brussels is made in three sizes. When ordering be sure and name the size you want. These rugs are made with an extra heavy lap at each end, beautifully colored and are quoted at a price fully one-third less than their regular value.

Size 6 ft. x 9 ft. ....	\$ 6.20
Size 7 ft. 6 in. x 9 ft. ....	7.35
Size 9 ft. x 12 ft. ....	11.75

### Ghorevan Seamless Brussels Rug



**No. 23-A-305.** A handsome Oriental pattern made of one of the heaviest grades of Brussels, guaranteed fast colors, all new and perfect, one that will give unlimited service and is certain to be satisfactory in every way.

Our positive guarantee covers the purchase of every rug in this lot to be the best seamless Brussels rug at the price on the market.

Size 9 ft. x 12 ft. ....	\$11.75
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Ghorevan Seamless Brussels Rug



No. 23-A-306. A handsome Oriental pattern made of an extra quality of Brussels entirely in one piece; a rug suitable for any room; all new and perfect. A specially well made, heavy Brussels rug worth fully one-third to one-half more than our bargain price. Made with an extra heavy leather bound hem. Without exception the best rug made for the price.

Size 9 ft. x 12 ft. ....\$11.75

Ghorevan Seamless Brussels Rug



No. 23-A-307. This new parlor design is made of a heavy quality of Brussels woven entirely in one piece with an extra heavy hem at either end, finished with a leather binding. This rug was made to sell for fully one-third more than our bargain price. These rugs we guarantee to be exactly as we represent them and are new and perfect in every way.

Size 9 ft. x 12 ft. ....\$11.75

Serappi Seamless Brussels Rug



No. 23-A-308. Made of the finest quality of Brussels, entirely in one piece; copied from a fine Oriental rug, colors all strictly fast, extra good grade; unlimited wearing quality and the newest and handsomest pattern of the year.

Size 6 ft. x 9 ft. ....\$ 6.70  
Size 7 ft. 6 in. x 9 ft. .... 8.35  
Size 8 ft. 3 in. x 10 ft. 6 in. .... 11.00  
Size 9 ft. x 12 ft. .... 13.85

Serappi Seamless Brussels Rug



No. 23-A-309. Too much cannot be said of these bargains. We procured them at an auction sale of one of the largest mills in the world. This beautiful carpet is one of the choicest and the quality best of any Brussels. Made entirely in one piece; colors exactly as shown.

Every purchaser of one of these handsome one-piece Brussels rugs is protected by our guarantee to supply you the handsomest and best Brussels rug made for the price. Be sure and state size wanted when ordering.

Size 6 ft. x 9 ft. ....\$ 6.70  
Size 7 ft. 6 in. x 9 ft. .... 8.35  
Size 8 ft. 3 in. x 10 ft. 6 in. .... 11.00  
Size 9 ft. x 12 ft. .... 13.85

Serappi Seamless Brussels Rug



No. 23-A-310. This one-piece extra quality Brussels rug in the newest combination of colors; suitable for a parlor rug. We can furnish this beautiful pattern in a size to fit almost any room. This is made of the heaviest quality of Brussels, entirely in one piece and will make the most satisfactory rug that money can buy. Our price is fully one-third less than this rug can be bought for in the regular way. They are all new and perfect and without any exception the best bargain to be had in the floor covering line.

Size 6 ft. x 9 ft. ....\$ 6.70  
Size 7 ft. 6 in. x 9 ft. .... 8.35  
Size 8 ft. 3 in. x 10 ft. 6 in. .... 11.00  
Size 9 ft. x 12 ft. .... 13.85  
Size 10 ft. 6 in. x 12 ft. .... 17.30  
Size 10 ft. 6 in. x 13 ft. 6 in. .... 19.50

Serappi Seamless Brussels Rug



No. 23-A-311. The handsomest Persian pattern in a one-piece extra quality Brussels rug. This new desirable pattern is a copy of a fine Oriental rug and is a blending of beautiful Oriental colorings, and will make a serviceable, satisfactory, handsome rug. Made entirely in one piece, brand new and perfect, guaranteed to be the best bargain ever offered. When ordering be sure and state plainly the size wanted. Regular dealers will ask you fully double our price for a rug of this extra quality. The colorings are high-class and perfectly fast.

Size 8 ft. 3 in. x 10 ft. 6 in. ....\$11.00  
Size 9 ft. x 12 ft. .... 13.65  
Size 10 ft. 6 in. x 12 ft. .... 17.30  
Size 10 ft. 6 in. x 13 ft. 6 in. .... 19.50



**Meshed Wilton Velvet Rug**



**No. 23-A-312.** An extra heavy quality of Wilton Velvet, guaranteed all fast colors in one of the newest and most desirable floor patterns, made of good quality of Wilton Velvet that will stand any amount of hard service. This is a rug that we can thoroughly recommend to you in every way and we can positively assure you it will make the best wearing rug for the money that can be sold by any one.

If you want the best wearing medium priced rug made, order our number 23-A-324 seamless Wilton Velvet rug and we will guarantee positive satisfaction on every purchase.

Size, 9 ft. x 12 ft., price .....\$14.55

**Sarouk Wilton Velvet Rug**



**No. 23-A-315.** Especially beautiful Oriental pattern in an extra heavy quality of Wilton Velvet. This handsome rug is an exact reproduction of a fine Oriental design and coloring and is made in a range of sizes that will fit almost any room. As for quality and coloring of this rug, we can only say that it is without any question the best bargain that you can possibly procure and shipment of these goods can be made without a moment's delay.

Size 27 in. x 54 in., price .....\$ 1.25  
Size 36 in. x 72 in., price ..... 2.50  
Size 8 ft. 3 in. x 10 ft. 6 in., price ..... 13.50  
Size 9 ft. x 12 ft., price ..... 15.25  
Size 11 ft. 3 in. x 12 ft., price ..... 19.95

**Meshed Wilton Velvet Rug**



**No. 23-A-313.** This handsome reproduction of a fine Oriental rug in the new combination of green and tan is one of the newest and handsomest styles in a medium grade of Wilton Velvet rug. This handsome pattern is an exact reproduction of a fine Oriental rug and is serviceable in every way. All the colors are perfectly fast and shipment can be made of this handsome rug without any delay whatever. We will guarantee this to be the best value that your money can buy from any one, this rug being worth fully one-third more than our price, and as to pattern and coloring there is positively nothing handsomer made.

Size 9 ft. x 12 ft., price .....\$14.55

**Tabriz Seamless Wilton Velvet Rug**



**No. 23-A-316.** We wish especially to recommend to you this splendid value in a one-piece Wilton Velvet rug, made full size, 9 ft. x 12 ft., in the exact colors of the highest class rugs made. This handsome design can be furnished exactly in the colors shown without any delay whatever. Every rug guaranteed new and perfect, made of selected yarns of all wool and worsted and made up in a manner to insure first-class service. This is without exception one of our best values and is sold under our positive guarantee to be worth fully one-third more than our exceptionally low price.

For other colorings in this quality of rug we refer you to Lot 23-A-317, 23-A-318 and 23-A-319.

Size 9 ft. x 12 ft., price .....\$16.75

**Sarouk Wilton Velvet Rug**



**No. 23-A-314.** This is a special grade of Wilton Velvet rug which we are offering to our customers at a positive saving of fully one-third to one-half over the regular prices. This is a handsome pattern and is one that will give the best of service and we do not hesitate to recommend it as one of the most satisfactory and long wearing rugs that money can buy. We wish especially to call your attention to the list of sizes that this rug is made in, any of which we can furnish without a moment's delay.

Size 27 in. x 54 in., price .....\$ 1.25  
Size 36 in. x 72 in., price ..... 2.50  
Size 8 ft. 3 in. x 10 ft. 6 in., price ..... 13.50  
Size 9 ft. x 12 ft., price ..... 15.25  
Size 11 ft. 3 in. x 12 ft., price ..... 19.95

**Tabriz One-Piece Wilton Velvet Rug**



**No. 23-A-317.** This handsome Oriental pattern is made up of the most durable combination of wool and worsted yarns and is finished in a manner suggesting the best goods manufactured in domestic rugs. This rug is designed especially for critical tastes and is one that will come up to the most artistic ideas. The colorings are all soft and rich, the design pleasing and pretty and the quality all that could be desired in a rug at a great deal higher price than we ask.

If you want a more expensive and heavier rug we strongly advise the purchase of our number 23-A-324 seamless Wilton Velvet rug, and you are sure to get a long wearing handsome rug.

Size 9 ft. x 12 ft., price .....\$16.75



**Tabriz 1-Piece Wilton Velvet Rug**



No. 23-A-318. A new and beautiful parlor pattern in a one-piece extra quality Tabriz Wilton Velvet rug. This handsome pattern is gotten up for use where a serviceable, handsome rug is required. The dyes and yarns used in the manufacture of this rug are selected with extreme care and it is one that you can depend on for first-class service. It is without any question the best bargain your money can buy from any one. Your order for this rug can be filled without a moment's delay. Every rug seamless, finished in a first-class manner and shipped to you rolled on a pole so that you are certain to get your goods in first-class condition.

Size 9 ft. x 12 ft., price .....\$16.75

**Tabriz 1-Piece Wilton Velvet Rug**



No. 23-A-319. This excellent rug made entirely in one piece, in the most beautiful combination of soft olive, wood browns, tan and ivory shades. The small covered Persian effect is especially adapted for rooms where the decorations are of the soft, quiet colorings. This rug has every appearance both in design, coloring and finish of one of the finest rugs that money can buy. This rug is sold to you under our positive guarantee to be without any question the best bargain ever offered by any one. Place your order at once, as our stock is limited and such bargains cannot be duplicated.

Size 9 ft. x 12 ft., price .....\$16.75

**Ispahan Axminster Rug**



No. 23-A-320. This brand new stylish parlor rug made of one of the heavy grades of Axminster in the handsomest piece of coloring known to the weaver's art. If you want the handsomest floral pattern in a fine Axminster rug, do not hesitate to give us your order for one of these beauties and we will assure you perfect satisfaction in every way. This is an extra heavy quality and is a value that we defy our competitors to meet.

Every Axminster fabric while new seems to sweep off. This is nothing to be alarmed about as it is merely the mill lint and dust sweeping out.

Size 8 ft. 3 in. x 10 ft. 6 in., price .....\$15.40  
Size 9 ft. x 12 ft., price ..... 18.40

**Fereghan Axminster Rug**



No. 23-A-321. A copy of a handsome hand-made camel's-hair rug in one of the most serviceable and handsome combinations made in this popular fabric. This heavy, handsome rug is woven entirely of selected yarns which we do not hesitate to recommend as being the best floor covering for the money offered by any one. Your order can be filled for either of these useful sizes without a moment's delay, at a less price than this excellent quality can be bought for at wholesale in large quantities.

Sizes 8 ft. 3 in. x 10 ft. 6 in., price .....\$16.40  
Size 9 ft. x 12 ft., price ..... 19.40

**Mahal Axminster Rug**



No. 23-A-322. This extra heavy pile silky finish Axminster rug is made and finished in the best possible manner and is a quality and design that will satisfy the most exacting. Our special low price for this heavy grade of Axminster is far below the regular value of these rugs. This handsome parlor pattern is made in a range of sizes from which you can undoubtedly fit any room.

Size 6 ft. x 9 ft., price .....\$ 9.70  
Size 8 ft. 3 in. x 10 ft. 6 in., price ..... 16.00  
Size 9 ft. x 12 ft., price ..... 18.75  
Size 11 ft. 3 in. x 12 ft., price ..... 23.75

**Mahal Axminster Rug**



No. 23-A-323. This beautiful Oriental pattern is made in the best possible manner of an extra quality Axminster; made with a special finished end which insures first-class service. At the prices we offer these handsome, first-class Axminster rugs we defy all competition. The illustration does not do justice by any means to this beautiful Oriental effect and you can make no mistake in placing your order for this handsome design.

Size 6 ft. x 9 ft., price .....\$ 9.70  
Size 8 ft. 3 in. x 10 ft. 6 in., price ..... 16.00  
Size 9 ft. x 12 ft., price ..... 18.75  
Size 11 ft. 3 in. x 12 ft., price ..... 23.75



Khiva Seamless Wilton Velvet Rug Khiva Seamless Wilton Velvet Rug Senna Seamless Wilton Velvet Rug



No. 23-A-324. In this lot we offer you the best seamless Wilton Velvet rug that money can buy. This beautiful Oriental pattern is made in a combination of colors that will harmonize with any room and is a rug that will satisfy the most artistic tastes. Remember, this rug is made entirely in one piece of an extra heavy quality of Wilton Velvet that is practically indestructible. All colors are strictly fast and at the price we offer you these handsome rugs you should not fail to give us your order.

Size 27 in. x 54 in., price ..... \$ 1.65  
Size 6 ft. x 9 ft., price..... 10.75  
Size 7 ft. 6 in. x 9 ft., price..... 13.35  
Size 9 ft. x 12 ft. price..... 20.95

Khiva Seamless Wilton Velvet Rug



No. 23-A-327. This beautiful rug is made of the first quality of seamless Wilton Velvet. The design is copied from a very high class hand-made Oriental rug and the colorings are of the newest combinations of green, ivory and brown shades. This is a quality that will unquestionably give the best of service and for a good general rug we do not hesitate to call this our best bargain. Remember, these rugs are all new and perfect in every way and are made without seams of any kind. At the bargain price we offer these rugs we will guarantee them to be fully one-third under the price that other firms will ask.

Size 7 ft. 6 in. x 9 ft., price.....\$13.35  
Size 9 ft. x 12 ft., price..... 20.95



No. 23-A-325. Khiva seamless Wilton Velvet rug. Our handsomest floral pattern in the finest quality seamless Wilton Velvet made. This rug is a combination of all soft, rich colorings and the design is such as will harmonize with almost any general surroundings. If you want a handsome floral rug do not hesitate to place your order with us for one of the various sizes in this pattern. As to quality, we will say that there is no floral floor covering made at anything like the price that will give the service and the satisfaction this extra quality will. Others ask fully one-third to one-half more than our low price on these rugs. Remember that these goods are all new and perfect in every way and are sold under our positive guarantee to be exactly as shown in our illustration.

Size 27 in. x 54 in., \$1.65 Size 7 ft. 6 in. x 9 ft. \$13.55  
Size 6 ft. x 9 ft., 10.75 Size 9 ft. x 12 ft., 20.95

Royal Soumak Axminster Rug



No. 23-A-328. This heaviest grade Soumak Axminster in the handsomest Oriental pattern made in any quality of goods. This is without any question the heaviest quality and the best wearing Axminster that money can buy.

Size 36 in. x 72 in., price..... \$ 3.35  
Size 6 ft. x 9 ft., price..... 11.85  
Size 7 ft. 6 in. x 9 ft., price..... 13.85  
Size 8 ft. 3 in. x 10 ft. 6 in., price..... 17.75  
Size 9 ft. x 12 ft., price..... 21.35  
Size 10 ft. 6 in. x 13 ft. 6 in., price..... 28.50  
Size 11 ft. 3 in. x 12 ft., price..... 27.25  
Size 12 ft. x 13 ft. 6 in., price..... 32.50  
Size 12 ft. x 15 ft., price..... 35.75



No. 23-A-326. This handsome Oriental pattern is made in two useful sizes and is made entirely in one piece. This is a copy of a very choice Oriental pattern. Colorings are all soft and beautiful and will harmonize with almost any surroundings. These are colors that are well known for service and durability and is a rug that we do not hesitate to recommend as one of our choicest and handsomest and most beautiful Oriental effects ever made in this extra quality of seamless Wilton Velvet. There is positively no question but what this rug will prove satisfactory in every way. When ordering be sure and state size wanted.

Size 8 ft. 3 in. x 10 ft. 6 in., price..... \$17.50  
Size 9 ft. x 12 ft., price..... 20.00

Royal Soumak Axminster Rug



No. 23-A-329. This heavy grade of Soumak Axminster is of the same excellent quality as our No. 23-A-328. Too much cannot be said of the quality and style in designing and coloring of this beautiful rug. Please note the large list of sizes that we can supply in this handsome pattern without a moment's delay.

Size 18 in. x 36 in., price.....\$ .95  
Size 27 in. x 60 in., price..... 1.95  
Size 36 in. x 72 in., price..... 3.35  
Size 8 ft. 3 in. x 10 ft. 6 in., price..... 17.75  
Size 9 ft. x 12 ft., price..... 21.35  
Size 10 ft. 6 in. x 13 ft. 6 in., price..... 28.50  
Size 12 ft. x 15 ft., price..... 35.75



### Kermanshah Royal Wilton Rug



**No. 23-A-330.** This handsome Royal Wilton rug of the finest quality is made of all choice selected yarns and is an exact reproduction of a handsome hand-made Oriental rug. The colorings are all soft and subdued and will undoubtedly tone in with most any surroundings. These are rugs that we can recommend to particular people as to colorings, patterns, etc., and they are in every way high-class designs and at the exceptionally low prices at which we offer them they are unquestionably the greatest bargain in our lines.

Size 6 ft. x 9 ft. ....	\$18.50
Size 8 ft. 3 in. x 10 ft. 6 in. ....	26.50
Size 9 ft. x 12 ft. ....	29.50
Size 10 ft. 6 in. x 12 ft. 6 in. ....	36.75
Size 10 ft. 6 in. x 13 ft. 6 in. ....	41.50

### Kermanshah Royal Wilton Rug



**No. 23-A-331.** This unequaled quality of genuine Royal Wilton is one of the most beautiful Persian patterns and colorings that can be made in domestic rugs. It has the exact appearance of a very fine Oriental rug and is one that will furnish a very pleasing harmonious room.

Specially suitable for library, living room or any space where the small, neat Persian effects are desired. The design and coloring are reproduced from a high-class hand-made Persian rug and for the rich tasty effects desired by most people this rug cannot be equaled.

Size 6 ft. x 9 ft. ....	\$18.50
Size 8 ft. 3 in. x 10 ft. 6 in. ....	26.50
Size 9 ft. x 12 ft. ....	29.50
Size 10 ft. 6 in. x 12 ft. ....	36.75
Size 10 ft. 6 in. x 13 ft. 6 in. ....	41.50

### Royal Herat Wilton Rug



**No. 23-A-332.** This rug represents the highest standard of manufacture in domestic goods. It is made of a pure worsted in the softest and hand-some colors known to the weaver's art. We will guarantee our price on these rugs to be fully one-third less than the regular retail price.

Particular attention is called to the large number of sizes made in this handsome rug from which you can select for any size room.

Size 4 ft. 6 in. x 7 ft. 6 in. ....	\$12.00
Size 6 ft. x 9 ft. ....	19.85
Size 8 ft. 3 in. x 10 ft. 6 in. ....	29.15
Size 9 ft. x 12 ft. ....	31.85
Size 10 ft. 6 in. x 12 ft. ....	44.50
Size 11 ft. 3 in. x 12 ft. ....	46.50
Size 10 ft. 6 in. x 13 ft. 6 in. ....	48.50
Size 11 ft. 3 in. x 15 ft. ....	52.75

### Royal Herat Wilton Rug



**No. 23-A-333.** This reproduction of a rare antique rug is made of the finest worsted that is put in any floor covering. This handsome rug is made to use with high-class decorations and if you want the choicest and most artistic and at the same time the best wearing rug, do not hesitate to send your order for one of these beauties as they are sold to you under our positive guarantee to be exactly as we represent them and to be worth fully one third to one-half more than our exceptionally low price. Every rug is absolutely new and perfect, and no matter what price you pay a handsomer and higher-class rug cannot be had. Do not fail to take advantage of this offer at once.

Size 8 ft. 3 in. x 10 ft. 6 in. ....	\$29.15
Size 9 ft. x 12 ft. ....	31.85

### Afghan Body Brussels Rug



**No. 23-A-334.** The best quality of Body Brussels. This celebrated fabric is known the world over for its wearing qualities. For long hard service there is positively no better rug made. Pattern shown in our illustration is one of the handsomest and one of the best general rugs made. You can positively make no mistake in giving us your order for one of these handsome rugs.

Specially suitable for any space where extreme hard wear is given. The colorings in body Brussels rugs of this grade are absolutely fast and the designs neat, tasty and high-class.

Size 6 ft. x 9 ft. ....	\$13.75
Size 8 ft. 3 in. x 10 ft. 6 in. ....	19.75
Size 9 ft. x 12 ft. ....	21.75
Size 11 ft. 3 in. x 12 ft. ....	31.35
Size 11 ft. 3 in. x 13 ft. 6 in. ....	35.50

### Afghan Body Brussels Rug



**No. 23-A-335.** A handsome all-over Persian pattern in soft shades of tan, olive, rose and green, especially suitable for library, dining room, living room, etc. This is without any question the best quality of Body Brussels; colors are all strictly fast and will make a satisfactory rug for any use.

Special attention is called to the large assortment of regular and odd sizes that we can furnish in this best quality of body Brussels.

Size 4 ft. 6 in. x 7 ft. 6 in. ....	\$ 8.75
Size 6 ft. x 9 ft. ....	13.75
Size 8 ft. 3 in. x 10 ft. 6 in. ....	19.75
Size 9 ft. x 12 ft. ....	21.75
Size 11 ft. 3 in. x 12 ft. ....	31.35
Size 11 ft. 3 in. x 13 ft. 6 in. ....	35.50
Size 11 ft. 3 in. x 15 ft. ....	39.25



# SPECIAL VALUES IN SMYRNA, VELVET, AXMINSTER AND WILTON RUGS



No. 23-A-336. Heavy fiber Smyrna rug; both sides exactly alike.  
Size 30 in. x 60 in. .... \$0.75



No. 23-A-337. Heavy fiber Smyrna rug; both sides exactly alike.  
Size 30 in. x 60 in. .... \$0.75  
Size 36 in. x 72 in. .... 1.65



No. 23-A-338. Heavy all-wool Smyrna rug; both sides exactly alike.  
Size 26 in. x 54 in. .... \$1.35  
Size 30 in. x 60 in. .... 1.65  
Size 36 in. x 72 in. .... 2.45  
Size 4 ft. x 7 ft. .... 3.95



No. 23-A-339. Heavy Velvet rug.  
Size 27 in. x 54 in., exactly like cut. \$1.15



No. 23-A-340. Heavy Wilton Velvet rug.  
Size 27 in. x 54 in., heavily fringed. \$1.35



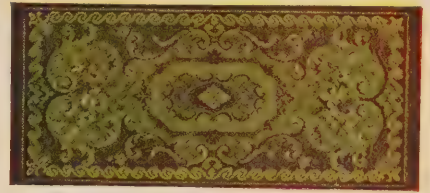
No. 23-A-341. Extra quality of heavy Wilton Velvet rug.  
Size 27 in. x 54 in. .... \$1.55



No. 23-A-342. Heavy quality of genuine Royal Wilton Velvet rug.  
Size 27 in. x 54 in. .... \$1.55



No. 23-A-343. A beautiful picture rug, in the heaviest quality of Axminster.  
Size 27 x 60 in. .... \$1.85  
Size 36 x 72 in. .... 3.20



No. 23-A-344. This handsome two-tone heaviest quality Axminster rug.  
Size 27 in. x 54 in. .... \$1.85



No. 23-A-345. Beautiful Oriental pattern made in a heavy quality of Axminster.  
Size 27 in. x 54 in. .... \$1.75  
Size 36 in. x 72 in. .... 3.10



No. 23-A-346. This beautiful floral pattern in a heavy quality of Axminster.  
Size 27 x 54 in. .... \$1.75  
Size 36 x 72 in. .... 3.10



No. 23-A-347. Handsome floral pattern, made of a heavy quality Axminster.  
Size 27 in. x 54 in. .... \$1.75  
Size 36 in. x 72 in. .... 3.10



No. 23-A-348. This beautiful picture rug in an extra heavy grade of Axminster.  
Size 27 in. x 54 in. .... \$2.00  
Size 36 in. x 72 in. .... 3.30



No. 23-A-349. The finest quality of Royal Wilton.  
Size 27 in. x 54 in. .... \$2.95  
Size 36 in. x 63 in. .... 4.85



No. 23-A-350. The finest quality of Royal Wilton.  
Size 27 in. x 54 in. .... \$2.95  
Size 36 in. x 63 in. .... 4.85

Pattern 23-A-345 can be furnished in good grade of Axminster.  
Size 9 x 12. Price ..... \$19.40



No. 23-A-351. Beautiful Oriental Hall Runners; made of the heaviest quality of Axminster in a new Oriental pattern.

Pattern 23-A-341 can be furnished in an extra quality of seamless Wilton Velvet.  
Size 9 x 12. Price ..... \$20.65

Size 2 ft. 3 in. x 9 ft. .... \$3.75  
Size 2 ft. 3 in. x 12 ft. .... 5.10

Size 2 ft. 3 in. x 15 ft. .... \$6.50  
Size 3 ft. x 9 ft. .... 5.10

Size 3 ft. x 12 ft. .... \$6.75  
Size 3 ft. x 15 ft. .... 8.50



# INGRAIN AND HEAVY REVERSIBLE BRUSSELS

# ART RUGS

Our customers should not be misled by the low prices we make on the following Rugs, for their quality is such as will give splendid and long service, but would recommend selection of the Reversible Brussels.

## BRUSSELINE ART SQUARES



No. 23-A-352. The best appearing and the best wearing inexpensive rugs made. Strictly fast colors.  
Size 6x9, \$1.65      Size 7-6x9, \$2.00      Size 9x9, \$2.50  
Size 9x10-6, \$3.10      Size 9x12, \$3.35



No. 23-A-353. Heavy mixed wool reversible seamless rugs. Exactly like illustration, or can be supplied in other colors, in green, red, tan and blue. State color wanted when ordering.  
Size 6x9, \$1.85      Size 7-6x9, \$2.25  
Size 9x9, \$2.80      Size 9x10-6, \$3.25      Size 9x12, \$3.65



No. 23-A-354. Heavy mixed wool reversible seamless rugs. Exactly like illustration, or can be supplied in other colors, in green, red, tan and blue. State color wanted when ordering.  
Size 6x9, \$1.85      Size 7-6x9, \$2.25  
Size 9x9, \$2.80      Size 9x10-6, \$3.25      Size 9x12, \$3.65



No. 23-A-355. Excelsior wool-filled seamless, reversible Art Squares; all fast colors and handsome patterns. In addition to the rug shown in illustration we can supply red, blue, green, tan and brown in both Oriental and floral patterns.  
Size 6x9, \$2.20      Size 7-6x9, \$2.95  
Size 9x9, \$3.45      Size 9x10-6, \$4.10      Size 9x12, \$4.95  
Size 12x12, \$6.50      Size 12x15, \$8.75



No. 23-A-356. Excelsior wool-filled seamless, reversible Art Squares; all fast colors and handsome patterns. In addition to the rug shown in illustration we can supply red, blue, green, tan and brown in both Oriental and floral patterns.  
Size 6x9, \$2.20      Size 7-6x9, \$2.95  
Size 9x9, \$3.45      Size 9x10-6, \$4.10      Size 9x12, \$4.95  
Size 12x12, \$6.50      Size 12x15, \$8.75



No. 23-A-357. Best quality pure, all-wool seamless reversible Art Squares. Colors strictly fast. Can be furnished in a rich, soft green ground as well as in the colors shown.  
Size 7-6x9, \$4.05      Size 9x10-6, \$5.60      Size 9x12, \$6.50



No. 23-A-358. Best quality all-wool seamless Art Squares. Strictly fast colors. Can be furnished in a number of other colorings, such as red, blue, tan and brown. State color wanted when ordering.  
Size 6x9, \$3.25      Size 7-6x9, \$4.05      Size 9x9, \$4.75      Size 9x10-6, \$5.60  
Size 9x12, \$6.50      Size 12x12, \$9.25      Size 12x15, \$11.25



No. 23-A-359. Best quality all-wool seamless Art Squares. Strictly fast colors. Can be furnished in a number of other colorings, such as red, blue, tan and brown. State color wanted when ordering.  
Size 6x9, \$3.25      Size 7-6x9, \$4.05      Size 9x9, \$4.75      Size 9x10-6, \$5.60  
Size 9x12, \$6.50      Size 12x12, \$9.25      Size 12x15, \$11.25



No. 23-A-360. This handsome Brussels effect seamless reversible rug in exactly the colors shown or in a number of other combinations, including red, green, tan and brown. Please state when ordering, color desired.  
Size 6x9, \$4.08      Size 7-6x9, \$5.12      Size 9x9, \$6.12      Size 9x10-6, \$7.15  
Size 9x12, \$8.25      Size 12x12, \$11.00      Size 12x15, \$13.85



No. 23-A-361. This beautiful medallion pattern, in our heavy reversible Brussels, made with an extra wearing surface, pattern showing equally distinct on either side. In addition to this handsome color we can also furnish greens, blues, tans, etc. When ordering state the color wanted.  
Size 6x9, \$4.08      Size 7-6x9, \$5.12      Size 9x9, \$6.12  
Size 9x10-6, \$7.15      Size 9x12, \$8.25



No. 23-A-362. This heavy reversible rug is made to look exactly like Brussels. Has an extra heavy wearing surface and is perfectly reversible. The colors used in this rug are absolutely fast, and are all in new choice color combinations.  
Size 6x9, \$5.40      Size 7-6x9, \$6.75      Size 9x9, \$8.10  
Size 9x10-6, \$9.45      Size 9x12, \$11.00



No. 23-A-363. This heavy reversible rug is made to look exactly like Brussels. Has an extra heavy wearing surface, and is perfectly reversible. The colors used in this rug are absolutely fast, and are all in new choice color combinations.  
Size 6x9, \$5.40      Size 7-6x9, \$6.75      Size 9x9, \$8.10  
Size 9x10-6, \$9.45      Size 9x12, \$11.00

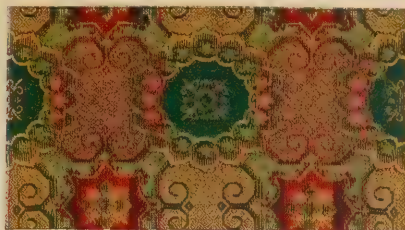


# INGRAIN CARPETS

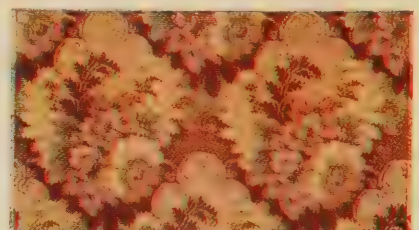
We offer you here a large variety of absolutely the best quality of Ingrain Carpets and at prices lower than ever before quoted. Each item means a big saving in price and the quality is covered by a binding guarantee.



No. 23-A-364. Fast color linen fiber carpet; full 36 in. wide; reversible, durable.  
Price per yard . . . . . \$0.21



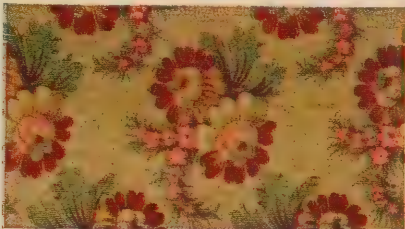
No. 23-A-365. Fast color reversible ingrain carpet; full 36 in. wide.  
Price per yard . . . . . \$0.21



No. 23-A-366. Heavy quality mixed wool and cotton Ingrain Carpet; full 36 in. wide, an extra serviceable carpet, perfectly reversible.  
Price per yard . . . . . \$0.31



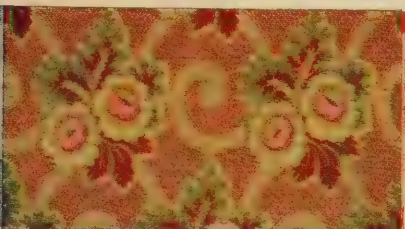
No. 23-A-367. This excellent parlor pattern in a special heavy wool and cotton combination Ingrain Carpet is specially recommended by us as a good wearing substantial carpet in every way. Made full 36 in. wide, perfectly reversible.  
Price per yard . . . . . \$0.33



No. 23-A-368. This excellent parlor pattern in a special heavy wool combination Ingrain Carpet is specially recommended by us as a good wearing substantial carpet in every way. Made full 36 in. wide, perfectly reversible.  
Price per yard . . . . . \$0.33



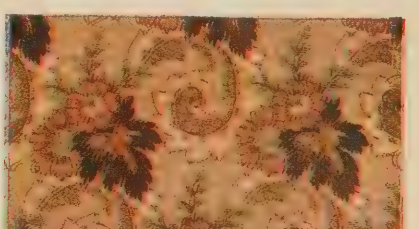
No. 23-A-369. This beautiful parlor pattern is an extra heavy wool and cotton combination carpet; full 36 in. wide, perfectly reversible.  
Price per yard . . . . . \$0.31



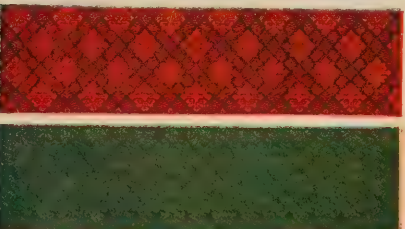
No. 23-A-370. Heavy all-wool filled reversible Ingrain Carpet. This is the handsomest pattern in our selection. All colors in this carpet are guaranteed strictly fast and it is a carpet that we can recommend to you in every way. Woven on a heavy cotton chain; full 36 in. wide, perfectly reversible. Per yard \$0.38



No. 23-A-371. Choice block pattern; one of the old-fashioned carpets which are always desirable. The particular shades of red and green used in this carpet are noted for their extreme wearing qualities. Full 36 in. wide, both sides alike; guaranteed all-wool filled. Price per yard . . . . . \$0.38



No. 23-A-372. This choice pattern in a beautiful shade of olive, tan and oak is one of the very newest things in our extra heavy, serviceable, all-wool filled carpet. Made full 36 in. wide, perfectly reversible. Price per yard . . . . . \$0.38



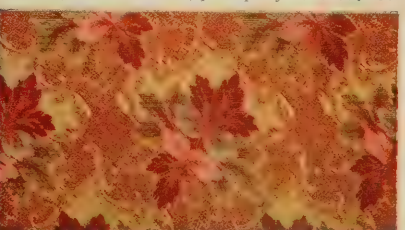
No. 23-A-373. No. 23-A-374. In the above illustration we show two colorings in the most desirable church and hall carpet. This carpet is guaranteed all-wool filled and can be supplied in either the red or the green ground; perfectly reversible, full 36 in. wide, price per yard . . . . . \$0.38



No. 23-A-375. This handsome green and oak scroll in our special quality, guaranteed all-wool filled carpet; full 36 in. wide, perfectly reversible.  
Price per yard . . . . . \$0.38



No. 23-A-376. Best quality all-wool Ingrain Carpet. This choice design is one of the newest and best patterns in this season's line. Guaranteed all wool and perfectly reversible; full 36 in. wide.  
Price per yard . . . . . \$0.51



No. 23-A-377. A very handsome serviceable carpet in our best grade of all-wool ingrain. This is a good general carpet suitable for almost any room, in a rich combination of colors that will harmonize with any surroundings; full 36 in. wide.  
Price per yard . . . . . \$0.51



No. 23-A-378. Best quality all-wool carpet in the newest and handsomest scroll made. This carpet is a medium ivory ground with a rich design in a combination scroll and leaf effect; full 36 in. wide, perfectly reversible.  
Price per yard . . . . . \$0.51



No. 23-A-379. This new Oriental pattern is a reversible all-wool Ingrain Carpet, suitable for any room and specially adapted for bedrooms. This is a very neat small pattern which will cut without waste and is a carpet which is worth nearly double our price. Price per yard . . . . . \$0.51



# **LINOLEUM**

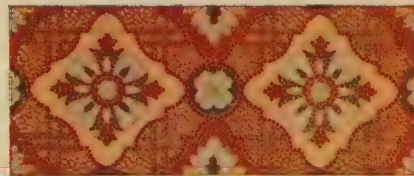
Our enormous stock of Linoleum is selected with great care from the leading factories and we show on this page the choicest and most popular designs. The quality of our Linoleum is absolutely the best made, of beautiful colorings and of such heavy grade as will stand the hardest service and not to be compared with oilcloth.



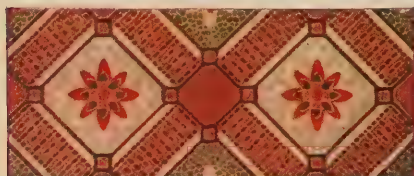
No. 23-A-380. Good grade of printed Linoleum. Full 6 ft. wide, at one-half the regular price. 2 yards wide, price per square yard.....\$0.39



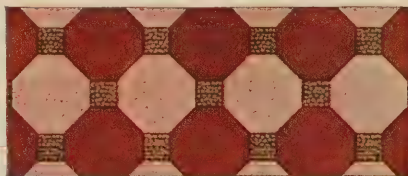
No. 23-A-381. Good grade of printed Linoleum. Others ask double our price. Full 2 yards wide, price per square yard.....\$0.39



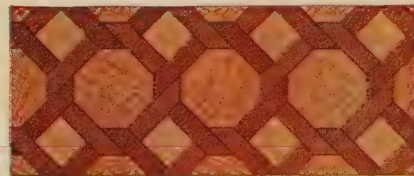
No. 23-A-382. A heavy quality of printed Linoleum. Full 6 ft. wide, price per square yard.....\$0.39  
See page 318 for full description.



No. 23-A-383. A new tile pattern in a heavy grade of Linoleum, at a price that defies all competition. Full 2 yards wide, price per square yard.....\$0.41



No. 23-A-384. Extra heavy grade of printed Linoleum. Full 6 ft. wide, handsomest pattern in our stock. The best bargain money can buy. Price per sq. yd...\$0.41



No. 23-A-385. Extra grade of printed Linoleum. Be sure and send size of rooms so that we may cut to the best advantage. Full 6 ft. wide, price per sq. yd.\$0.46



No. 23-A-386. A new pattern in the best quality of printed Linoleum. Worth regularly double our price. Made either 6 ft. or 7 ft. 6 in. wide. Price per square yard.....\$0.44



No. 23-A-387. Best quality of printed Linoleum. A pattern that we know will please the most critical customer. 6 ft. wide, price per square yard.....\$0.58  
12 ft. wide, price per square yard.....0.64



No. 23-A-388. Best quality printed Linoleum in a handsome pattern, for any use. All new, clean perfect goods. 6 ft. wide, price per square yard.....\$0.58  
12 ft. wide, price per square yard.....0.64



No. 23-A-389. Our heaviest and best quality of Linoleum. Be sure and give plan of room so we can cut to best advantage. 6 ft. wide, price per sq. yd..\$0.47  
12 ft. wide, price per square yard.....0.62



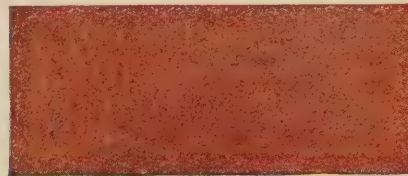
No. 23-A-390. Best quality of printed Linoleum in a neat blue and white tile pattern; 1 1/4 in. blocks. 6 ft. wide, price per square yard.....\$0.47



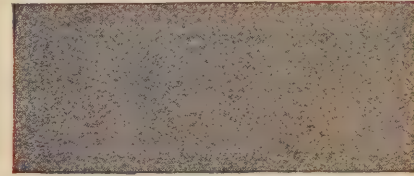
No. 23-A-391. Best quality of printed Linoleum, medium bright colors; can be furnished either 2 or 4 yards wide. 6 ft. wide, price per square yard.....\$0.47  
12 ft. wide, price per square yard.....0.62



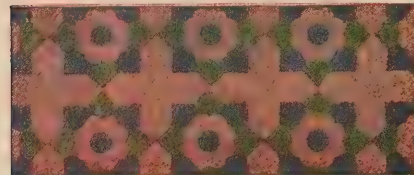
No. 23-A-392. Heaviest quality of inlaid Granite Linoleum. This is an extra heavy quality, 6 ft. wide, price per square yard.....\$0.65



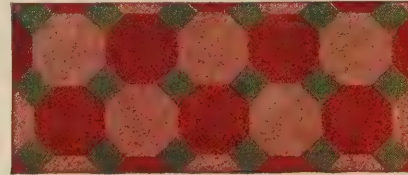
No. 23-A-393. Best grade of inlaid Granite Linoleum. Through to the back. This is the best value offered by anyone. Full 6 ft. wide, price per square yd.\$0.65



No. 23-A-394. Best quality of inlaid Granite Linoleum. Colors through to back. Worth double our price, all new and perfect. Full 6 ft. wide, price per square yard.....\$0.65



No. 23-A-395. Heaviest quality of genuine inlaid Linoleum; each color goes clear through to the back. 6 ft. wide, price per square yard.....\$0.83  
See page 318 for full description.



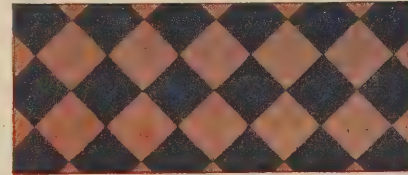
No. 23-A-396. This tile effect in an extra heavy quality of genuine inlaid Linoleum; each color goes clear through to the back. Made 6 ft. wide, price per square yard.....\$0.83



No. 23-A-397. This desirable inlaid wood floor effect made of the heaviest grade of genuine inlaid Linoleum. Made full 6 ft. wide, price per square yard.....\$0.93



No. 23-A-398. This tile pattern in our heaviest quality of genuine inlaid Linoleum. Especially suited for store use, etc. Give size of room so that we can cut to best advantage. 6 ft. wide, price per square yard..\$0.93



No. 23-A-399. A handsome blue and white tile effect in an extra heavy quality of inlaid Linoleum, at a saving to you of fully 50c per square yard. 6 ft. wide, price per square yard.....\$0.93



No. 23-A-400. The heaviest quality of inlaid Linoleum made. Other dealers ask double our price for this grade of goods. Made 6 ft. wide, price per sq. yd.\$0.97



# AUTOMATIC BED DAVENPORTS

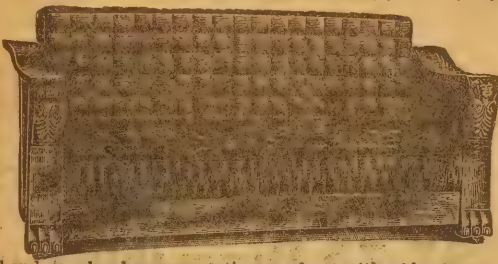
The various Davenport listed on this page are shipped from our Chicago Warehouse stock. The ends of these davenports are detached from the frames so as to prevent breakage and also reduce freight expense. These davenports are very easily and quickly assembled. When ordering be sure and specify the kind of upholstery and color desired. Also state whether oak or mahogany finish is preferred where description describes both.



**No. 1-A-19—**  
We illustrate herewith a strictly high grade Bed Davenport of a type that has proven very popular in Chicago. The upholstery is absolutely first-class and consists of cotton felt over hair. These Davenports are extremely well

made, have biscuit tufted top with full spring seat and back. The springs are hand tied and have interlacing supports above and below, fitted with non-pull-out prong buttons. Has wardrobe underneath, running full length. Can be furnished with either American quarter oak or birch mahogany frame. Length, 6 ft. 8 in. Width (when opened into a bed), 3 ft. 10 in. Weight, 250 lbs. Upholstered in Boston leather. Price, each, \$14.95

**No. 1-A-21—**  
Quarter-sawed oak Davenport. Same size and description as others described on this page. Ruffled top and front, extra broad shaped arms and carved claw feet, large handsome head ornamentations on front with wide pilasters, works automatically and guaranteed not to get out of order. We especially recommend these Davenports upholstered in genuine leather. Weight, about 250 lbs.



Price, each, Velour.....\$17.50  
" " Royal Leather.. 19.95  
" " Silk Plush..... 26.25

Price, each, Crushed Plush.. 27.25  
" " Genuine Leather. 32.00



tion and size same as those classified under No. 1-A-20 on this page. Weight, about 250 lbs. Quartered oak or birch mahogany frame.

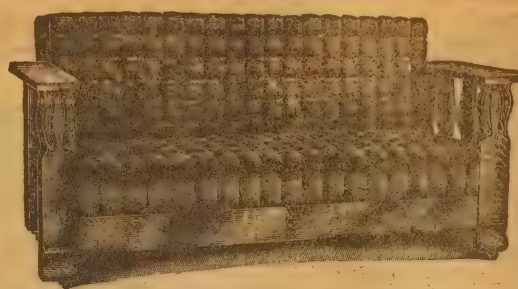
Price, Velour.....\$15.50  
" " Royal Leather..... 18.25  
" " Silk or Crushed Plush. 25.00

Price, each, Brocaded Verona Velour.....\$20.00  
" " Genuine Leather. 30.00

**No. 1-A-464—**

This automatic Bed Davenport can be furnished in either quartered oak or birch mahogany frame. It is hand rubbed and polished to a piano finish, has absolutely the very best quality of filling with fully guaranteed spring construction in seat and back. Top consists of 10 rows large finely upholstered diamond tufting, large spacious wardrobe below, running full length, when open measures 46 inches wide and 85 inches long. Shaped arms and heavy pilasters. The heads on posts are hand carved. Weight, about 260 lbs.

Price, each, Velour Plush.....\$26.00  
" " Brocaded Verona Plush..... 27.50  
" " Imported Silk Tapestry..... 39.00  
" " Silk or Crushed Plush..... 33.75  
" " Royal Leather..... 29.50  
" " Genuine Leather..... 39.75



holstered in 10 rows of biscuit tufts deeply plated. Roomy box for storing wardrobe or other articles beneath. Instantly convertible into a bed with a sleeping surface of 3 ft. 10 inches wide and 6 ft. long. Extreme outside length 80 inches. Can be furnished in various covers as designated below. Weight, 250 lbs. When ordering state finish and upholstery desired.

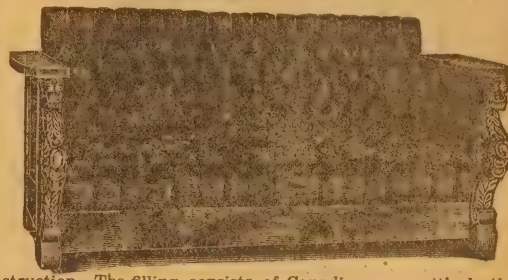
Price, each, Velour.....\$13.75  
" " Royal Leather..... 15.25  
" " Genuine Leather..... 26.00

**No. 1-A-447—**

These Davenports can be furnished with either American quarter-sawed oak or birch mahogany frames. This is a high-grade design of an unusually pleasing type. Automatic can be used as a parlor Davenport or a bed. Has strictly high-grade spring construction, all springs being hand tied, full spring seat and back. Fillings consist of flax, tow and cotton with hair top. Broad arms with French shaped upright and carved feet, surmounted with composition carved heads, diamond tufted top. Weight, about 250 lbs.



Price, each, Boston Leather.....\$20.60



**No. 1-A-1021**

Quartered oak or brick mahogany Bed Davenport with broad shaped arms and handsome projecting griffin fronts, has colonial legs and solid end panels, guaranteed spring construction. The filling consists of Canadian moss with elastic felt top. Top is deeply biscuit tufted. (See description of No. 1-A-20 for size.) Weight, about 250 lbs.

Price, each, Royal Leather.....\$24.00  
" " Brocaded Verona Velour, any color..... 25.00  
" " Silk Plush, any color..... 30.00  
" " Silk Crushed Plush, any color..... 30.00  
" " Genuine Leather..... 35.00

**No. 1-A-463—**  
This massive automatic Davenport Sofa Bed can be furnished in either hand polished birch, mahogany or selected quarter-sawed oak. Has broad sweeping arms running to top of back and extending to the massive Colonial columns at front, making this an unusually attractive piece of parlor furniture. The beauty of this piece cannot be fully appreciated unless you see the article itself. Length, 86 inches; width (extended into bed), 46 inches. Weight, 280 lbs.



Price, each, Brocaded Verona Plush.....\$30.00  
" " Royal Leather..... 34.00  
" " Silk Plush..... 37.50  
" " Crushed Plush..... 37.50  
" " Genuine Leather..... 45.80



# High Grade Couches at Wrecking Prices

## \$12.50 Buys This Couch Upholstered in Genuine Leather



**A \$20 Leather Value For \$12.50**

**No. 1-A-465** This exceptional Couch is positively one of the greatest values we have ever offered. It has an extra heavy kiln dried frame of quartered oak, finished in a rich shade of golden. Couch is 27 in. wide, and 76 in. long. Height of head end from floor 28 inches. Height of foot end 19½ in. It has 24 rows of tufting, 7 tufts wide, which makes 168 tufts in all. The scroll and floral design carving is clean cut and very pleasing in appearance. Good quality casters. Legs are fastened with bolts and thumb screws, which enable couch to be shipped K. D. at a decided saving in freight charges.

Interior construction is open to inspection and is arranged so as to avoid accumulating dust. Has heavy oil tempered spring construction. The head end has six additional oil tempered coil springs.

The prong buttons are fastened on the under side with composition washers, which absolutely prevent any possibility of tufting working loose. The filling consists of cotton felt over Canadian moss. The various covers in which this couch is upholstered are high grade in every respect. Shipping weight, 75 lbs. If you don't care to put more money into a better couch order this one. The value will surprise you.

Price each, Figured Velour.....	\$ 6.95
Price each, Royal Leather.....	7.25
Price each, Genuine Leather.....	12.50

When you purchase a couch whether from us or elsewhere, always bear in mind that there are two essential features required in a couch not contained in every piece of furniture, viz., durable spring construction and elasticity. There is a vast difference between a good inexpensive couch and a cheap couch which will sag and become hard and lumpy with little usage. A good couch has oil tempered carbon spring construction which eliminates any possibility of sagging on any part of top. It maintains a perfect tension in spring, neither giving nor holding too much, yet enough to insure comfort and ease while occupying couch. The couches listed on this and the following pages are guaranteed to contain these features, and furthermore to have all the originality of design and beauty of outline desirable in a couch. These designs were selected out of hundreds as the best values we could offer for the money. You make no mistake in ordering any one of them. We save you money on any couch you select. All couches are shipped from Chicago warehouse stock.

## \$3.95 Buys this Couch



**No. 1-A-475** The Couches classified under this number are inexpensive and simply designed, yet one of the greatest values ever offered for the money. Couch has a plain top and head roll with an extra heavy head rest containing six oil tempered springs. The body has twelve guaranteed oil tempered springs, resting on a slat bottom, connecting at both sides of frame, making this couch rigid, non-sagging and comfortable. Quartered oak frame, finished in golden gloss. Length 85 in.; width 28 in. Filling consists of Canadian moss with a heavy cotton felt top. Weight, 75 lbs.

Price each, Velour.....	\$4.35
Price each, Boston Leather.....	3.95

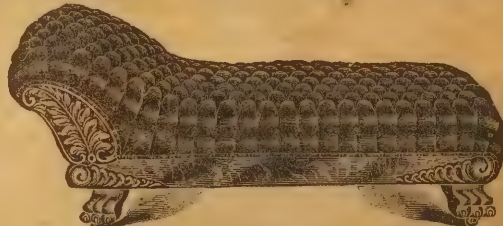
## \$8.35 Buys this Couch



**No. 1-A-511** This quarter sawed oak frame Couch has a diamond tufted top, size 28x76 in. The interior construction is the same as you will find described under No. 1-A-54. The design is unusually attractive and high grade in every respect. It has a much heavier spring construction than you will find in the ordinary couch. Shipping weight, 80 lbs.

Price each, Royal Leather.....	\$ 8.35
Price each, Velour.....	8.25
Price each, Genuine Leather.....	14.50

## \$7.75 Buys this Couch



**No. 1-A-485** Just fifty of these Couches left. This design has proven to be one of our best city sellers. It is a plain yet rich appearing couch entirely high grade in every respect, embodying all features described under 1-A-54. If you want a genuine bargain, you make no mistake in purchasing one of these couches. It is a value that is offered but seldom and must be considered a good "buy" at the low prices we quote. Shipping weight, 77 lbs.

Price each, Royal Leather.....	\$ 7.75
Price each, Genuine Leather.....	13.75

## \$9.75 Buys this Couch



**No. 1-A-512** The Couch illustrated here-with, has genuine quartered oak frame, heavily veneered, finished in a rich shade of golden. Heavy hand carved scroll at

head end with deep cut claw legs. Filling consists of Canadian moss with cotton felt top, faced with 9 ounce canvas duck, fastened with the best non-pull out steel prong buttons. Body of couch contains 24 of the finest tensioned guaranteed steel springs, while the head end contains 9. Has seven rows of biscuit tufting. The large number of springs found in this couch add materially to its life and comfort. Shipping weight, 85 lbs.

Price each, Figured Velour.....	\$ 9.75
Price each, Block Velour.....	9.75
Price each, Moroccan Leather.....	10.25
Price each, Silk Plush.....	12.95

**No. 1-A-741.** Same as above excepting that it is upholstered with an extra fine grade of genuine leather of special tannage, fully guaranteed to give universal satisfaction and net to open or check. Sample sent on request.

Price, each.....	\$19.25
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# High Grade Couches at Bargain Prices

ALL OF THE COUCHES LISTED ON THIS PAGE ARE SHIPPED DIRECT FROM CHICAGO

As explained on preceding page these couches were made of the very finest materials by most reputable and prominent manufacturers of upholstered furniture. The leather with which these couches are upholstered will give absolute satisfaction and positively will not check, split or open. Samples gladly furnished on request. All upholstering material, such as Chase Leather, Imitation Spanish Leather, Verona, Velour, Plush, etc., are guaranteed highest grade obtainable. Springs are not fence wire, but highly carbonized and oil tempered steel. Each couch on this page has 28 springs in the top and 9 in the head. Also full spring edges. They are fitted in a frame which prevents any possibility of them being forced through covering. Fillings are of Canadian moss with heavy elastic felt top. Made to stand the severest test of all—TIME. All heads are carefully set to the proper angle for the most comfort. The frames are highly polished and are as described below. These couches are shipped with legs detached so as to secure lowest freight rates.

## \$11.95 Buys This Couch



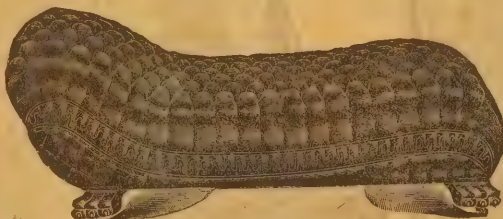
**No. 1-A-59.**  
This couch is 78 inches long and 30 inches wide, selected quartered oak frame with heavy embossed sides, hand carved legs, finished in rich shade of gold, 7 rows of diamond tufting faced with heavy canvas duck fitted

with non-pull prong buttons. Legs are detachable so as to secure compactness in shipping and accordingly less freight rate. Weight is 95 lbs.

Price, Boston Leather.....\$11.95  
" Genuine Leather.....23.00

## \$13.50 Buys This Couch

**No. 1-A-61.**  
This diamond tufted Gondola design couch is 76 in. long and 30 in. wide. An exact duplicate of a very high priced design, and is an article that will please the most critical. Shipping weight, about 100 lbs.



Price, Royal Leather.....\$13.50  
" Genuine Leather.....22.00

## \$16.50 Buys This Couch



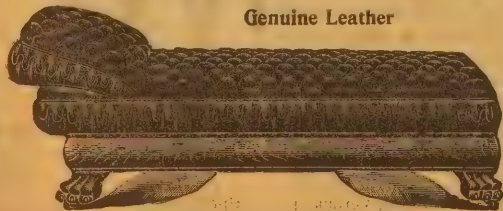
**No. 1-A-63.**  
A unique designed couch built on decidedly novel and pleasing lines. It is unusually large, measuring 80 inches long and 31 in. wide. Solid quartered oak frame, and hand carved

lion's claw feet. Beautiful ruffled base. Weight, 105 lbs.

Price each, Imitation Leather.....\$16.50  
" Genuine Leather.....27.50

## \$30.00 Buys This Magnificent Couch

**No. 1-A-65.**  
Colonial design couch, one of the finest examples of highest grade workmanship ever offered by us. Note the pillow head piece which has extra spring work built above the spring work of the body, making it doubly comfortable, yielding and more luxurious than the ordinary couch. Has large swelled panel base finely polished, showing to best advantage the beautiful graining of the quarter sawed oak wood used in the manufacture of the frame. Weight 100 lbs.



Genuine Leather

Price.....\$30.00

## \$25.00 Buys This Couch



**No. 1-A-60.**  
This couch is upholstered with genuine leather, quarter-sawed golden oak frame, size of top 30x76 in., diamond tufted top; absolutely high grade in every respect. Hand carved claw feet. One of

the greatest bargains ever offered for the money. Weight, 100 lbs.  
Price, Genuine Leather.....\$25.00

## \$25.00 Buys This Couch

**No. 1-A-62.**  
Genuine leather couch, diamond tufted top, Gondola design, 76 in. long, 30 in. wide. This will prove a very popular seller, as it is extraordinary value for the money. Upholstered in genuine leather. Notice the heavy roll edge.



Shipping weight, about 110 lbs.  
Price.....\$25.00

## \$30.00 Buys This Double Decker Spring Couch



**No. 1-A-64.**  
A substantially designed couch, embodying high grade workmanship and exclusive originality of design. Length 76 in., width 30 in. Neat head panel, carved claw feet, finely executed double

ruffled side. Upholstered in genuine leather.  
Price.....\$30.00

## \$16.35 Buys This "English Style" Tufted Couch

**No. 1-A-66.**  
This beautiful specimen of arts and crafts workmanship, commonly called Mission Type, is one of the best couch values ever offered in this class of furniture, the frame being purely



mission in style, is made of solid selected quartered oak, weathered finish; has diamond shaped tufting, extra large size top, 80 in. long and 30 in. wide. This couch was made to sell for \$50.00, in genuine leather, which can be easily verified by comparing it with any similar design at any local furniture store. We can furnish it in either genuine leather or imitation Spanish leather, the latter covering being very attractive and serviceable and at the price quoted enables the prospective purchaser to add this piece of furniture to his home at a very moderate price. Weight, 95 lbs.

Price, Imitation Spanish Leather.....\$16.35  
" Genuine Leather.....30.00



## We Save You 30 to 60 per cent on Parlor Suites.

No. 1-A-48. This handsome three-piece parlor suite is made of selected birch in a rich mahogany finish. Backs are artistically carved and shaped so as to give the most comfort. Large seats, extra heavy steel carbon oil tempered spring construction, shaped arms, continuous posts with quality casters. Sofa is 42 in. long, 38 in. high and 19 inches deep. Weighs 40 lbs. Easy chair is 38 in. high, 22 in. wide and 19 in. deep. Weighs 30 lbs. Rocker is 37 in. high, 22 in. wide and 19 in. deep. Weighs 30 lbs. Entire suite weighs 100 lbs. Loose cushions furnished at \$2.00 over prices quoted below:



Sanitary loose cushions with silk cord and tassels, any covering, \$2.00 more than the price quoted below.

We can furnish the various coverings with which this suite is upholstered, in green, brown, tan, red or blue. Be sure and specify which you prefer.

Shipped direct from Chicago

Price, Figured or Block Velour.....	\$ 9.95
Verona.....	11.50
Crushed Plush.....	13.00
Silk Damask.....	13.00

Price, Brocaded Silk Plush.....	\$13.00
Brocaded Verona Plush.....	13.00
Boston Leather.....	13.75
Genuine Leather.....	15.75

### AN EXCEPTIONAL VALUE

at Prices Quoted Below

No. 1-A-49. Mahogany finish three-piece parlor suite, made of seasoned Northern birch finely finished in imitation mahogany. Backs and fronts of arms are handsomely and attractively decorated with genuine hand made carvings. Fine spring construction. Suite consists of divan, arm chair and roomy rocker. Size of divan, 39 in. high, 41 in. long, 20 in. deep. Rocking chair and arm chair measure each 39 in. high, 26 in. wide and 20 in. deep. Weight of suite complete, 115 lbs.

Price, Verona... \$13.25

Price, Silk Plush 15.50

Price, Brocaded

Plush..... 15.50

Price, Genuine

Leather..... 18.00



Shipped direct from Chicago.

When ordering be sure and state color of upholstery preferred. We particularly advise green where mahogany frame is ordered.

While the parlor suites on this page are exceptional values, yet we advise the purchase of a higher priced suite, as you will find featured on pages 411 to 414.

## A Special Three-Piece Parlor Suite Bargain.

No. 1-A-50. We have just 50 parlor suites like accompanying illustration which we are offering to our country customers as a special parlor suite value. The suite was but recently designed, and is an exceptional value in every sense of the word. Each piece is fitted with a box edge, button tufted loose cushion, perfectly fitted and fastened by a silk tasseled cord. Cushions are upholstered with elastic cotton felt and hair. We have a few of these suites with stationary spring seats instead of loose cushions, which we furnish at \$2.00 less than the price quoted below. The back of this suite is higher than what you get in an ordinary design, and seats are extra wide, both of which add materially to the comfort and attractiveness of the design. Weight, 115 pounds. We are willing to break this suite and sell odd pieces if entire suite is not needed. We, however, advise the purchase of the suite complete.



Send us your order for this suite with the distinct understanding that if it is not in every respect exactly as represented, you can return it to us and we will refund your money.

All parlor suites shown on this page are shipped from our Chicago Warehouse.

	Figured or Block Velour	Brocaded Verona Plush	Crushed Plush, Silk Damask, Brocaded Silk Plush, Silk Plush and Verona	Boston Leather Spring Seat	Genuine Leather Spring Seat
Divan, only.....	\$ 8.25	\$ 8.55	\$ 9.40	\$ 8.65	\$10.90
Rocker, only.....	6.75	7.15	7.50	6.75	8.65
Arm Chair, only.....	6.20	6.75	7.15	6.40	8.25
Suite, complete.....	19.50	21.00	22.50	20.00	24.75



### Five-Piece Parlor Suite

No. 1-A-443.  
This finely finished and constructed five piece parlor suite is exactly like the illustration, but has one more parlor chair without arms, is entirely new in design, the frame being made throughout of selected birch finished a rich mahogany. The upholstered backs are richly scrolled and carved. The heavy upholstered seats are all supported with the best oil tempered guaranteed steel springs, heavily padded with elastic cotton felt and hair.



When ordering this parlor suite be sure and specify color of upholstery you prefer. Unless otherwise specified we always ship cream.

	Weight	Figured Block Velour	Silk Plush or Crushed Plush Damask	Boston Leather, Highest Grade.	Brocaded Verona Plush
Price, Suite, complete as illustrated	275 lbs.	\$15.30	\$20.90	\$20.30	\$18.90
Price, Divan	75 lbs.	5.35	6.70	6.80	6.35
Price, Rocker	70 lbs.	4.00	5.15	5.05	4.75
Price, Arm Chair	50 lbs.	3.00	4.25	4.20	3.65
Price, Reception Chair	40 lbs.	2.10	3.00	2.85	2.65

### Five-Piece Parlor Suite

No. 1-A-1015.  
This five piece parlor suite is exactly like illustration, the fifth piece which is not shown being a duplicate of the arm chair. Note the frame is made of solid birch finished in a rich mahogany shade. Upholstered backs are richly adorned with deep hand carved ornamentations. Each piece contains an oil tempered spring construction over which is heavy filling, consisting of padded elastic cotton felt and hair. The arms are broad



Only four of the five pieces in this suite are shown in the above illustration. The fifth piece is the exact duplicate of the reception chair shown at right of arm chair.

and shapely. The legs are nicely rounded. It is constructed so as to give the purchaser durability, at the same time approach a costly suite in appearance. In purchasing this suite you secure an asset which cannot be shown in illustration but is most assuredly embodied in this design, and that is: character and stately appearance.

	Weight	Figured or Block Velour	Brocaded Verona Plush	Silk or Crushed Plush or Broc. Silk Plush
Price, Suite complete	275 lbs.	\$18.25	\$21.75	\$23.95
Price, Divan	75 lbs.	6.15	7.00	7.70
Price, Rocker	70 lbs.	4.65	5.25	6.00
Price, Arm Chair	50 lbs.	3.75	4.35	4.75
Price, Reception Chair	40 lbs.	2.50	2.95	3.40

### Five-Piece Parlor Suite

No. 1-A-445.  
This very heavy and extremely handsome 5-piece parlor suite is highly finished in a rich mahogany, wood of the frame being selected seasoned northern birch. It is hand rubbed and polished throughout. All ornamentations shown on the tops, upper corners and back panels are exceptionally clean and deeply cut. Genuine hand carving. The top also has a heavy roll which is in



entire keeping with the broad shapely rolled arms. The legs, front standards, are simple yet very pleasing Colonial style. The construction throughout is the best that expert workmen with the proper materials can turn out.

	Weight	Figured Velour	Plush	Brocaded Plush, Silk Plush Bro. Silk Plush, Silk Damask	Genuine Leather
Price, Suite	280 lbs.	\$29.25	\$31.35	\$34.65	\$47.60
Price, Divan	80 lbs.	9.25	10.15	10.90	14.75
Price, Rocker	65 lbs.	7.00	7.50	8.10	10.75
Price, Arm Chair	55 lbs.	5.90	5.35	6.90	9.00
Price, Reception Chair	40 lbs.	4.25	4.65	5.00	6.50



# Three-Piece Parlor Suites



You save money  
by buying the com-  
plete suite.

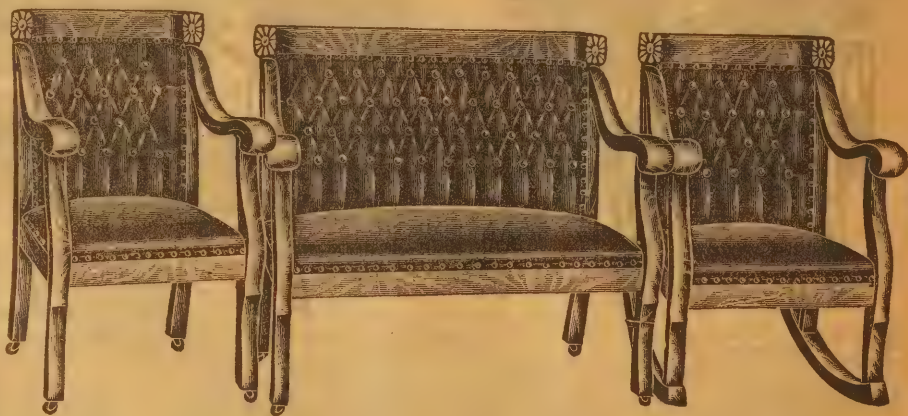
All parlor suits and pieces on this page are  
shipped from Chicago Warehouse stock.

**No. 1-A-1004.** This three-piece parlor suite is artistically designed and rigidly constructed. It is made of selected birch finished mahogany shade, water rubbed and hand polished to a mirror like brilliancy. It is a French Empire period style design fashioned after a very expensive suite. Note the fancy panel backs which are veneered with genuine Cuban mahogany. This suite is richly adorned with deep clear cut hand carved ornamentalations. The divan is 42 inches wide and 38 inches high and the seat 19 inches deep, front to back. The rocker and easy chair are of the same height and depth but 23 inches wide. We can supply this suite in any of the

popular colors and best quality upholstery as specified below. The spring seats are of the finest oil-tempered construction. All three pieces are not only exceedingly handsome, but roomy and comfortable. Study the illustration carefully.

Price Each:—	Weight.	Figured or Block Velour.	Brocaded Verona Plush.	Crushed Plush, Brocaded Silk, Damask or Boston Leather.	Genuine Leather.
Suite, complete	115 lbs.	\$18.50	\$20.00	\$22.40	\$25.35
Divan	45 lbs.	7.50	8.35	9.45	10.65
Rocker	35 lbs.	6.10	6.75	7.35	8.35
Arm Chair	35 lbs.	5.70	6.25	7.00	7.90

**No. 1-A-1003.** Three-piece parlor suite. The lot on hand consists of quartered sawed golden oak and birch mahogany frames upholstered in various coverings as specified below. They are water-rubbed and hand polished to the highest luster and will equal in brilliancy the costliest piece of parlor furniture. The lines are dainty, yet substantial and pleasing. The legs and the arms are attractively shaped, the latter broadening towards the front and ending in a heavy roll. The seats are heavily, yet softly upholstered over the base and contain fully guaranteed oil tempered high tension coil spring construction. The filling consists of the most elastic material, being Florida moss, cotton felt, etc. Backs are diamond tufted with non-pull-out buttons. Rounded tops have ends with attractively hand carved figures to relieve the severe lines. We can furnish this suite in any color in the following coverings: Plain silk plush; figured, brocaded silk plush; silk damask or genuine leather. Illustration above shows the suite upholstered with genuine leather. Note that the cushions are removable and have silk cords with heavy tassels except in the leather covering which has spring cushion seats as illustrated. Price, each, in covering described above, except the genuine leather, quartered oak or birch mahogany..... \$31.50  
Price, genuine leather, quartered oak or birch mahogany..... \$4.50



**No. 1-A-1002.** Those Who Desire a Stricly High Grade Parlor Suit of the Finest Manufacture will Certainly Appreciate the Great Value We Offer in the Wonderrul Bargains We Have Classified in this Lot. We were fortunate enough to secure a limited lumber of these parlor suits at a recent manufacturer's sale and are now offering them at a fraction of their real value. As shown in illustration they are elaborately carved and because of their graceful outline and beautiful design, will prove a most beautiful addition to any parlor. Suite consists of sofa, rocker and arm chair, measurements of which we give below. Particular attention is called to the fact that the panels of this Suite are veneered with genuine striped Cuban mahogany, and also that the finish is water rubbed to a piano polish, which adds a great deal more to the value of a Suite than if it had a gloss finish. It has an indestructible steel construction, over which is upholstered the very finest quality of genuine leather. Also furnished with the highest grade of silk plush or crushed plush loose cushion seats, tied with silk tasselled cords.



**\$26<sup>50</sup>**

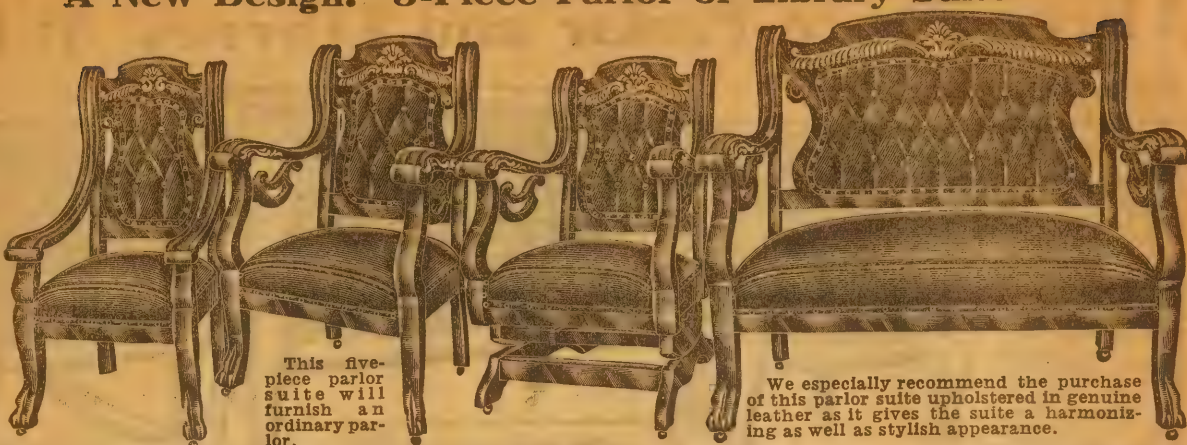
Article	Width.	Depth.	Height	Weight.
Sofa	50 in.	21 in.	33 1/2	60 lbs.
Rocker	24 in.	20 in.	33 1/2	35 lbs.
Arm Chair	24 in.	20 in.	33 1/2	30 lbs.
Price, silk or crushed plush				\$26.50
Price, genuine leather				\$2.50



## A New Design. 5-Piece Parlor or Library Suite

### No. 1-A-51.

A five-piece parlor suite, four pieces of which are illustrated herewith, made of selected birch finished in a rich mahogany, water rubbed polish. The fifth piece not shown is an exact duplicate of the small reception chair. The backs are diamond tufted in the best possible manner with non-pull-out buttons. All suites are of the spring edge type and are built over improved sanitary oil tempered steel springs. Has shaped legs and hand carved claw feet. An exceptional value in every way. If you want a massive suite of original design, we advise that you purchase one from this lot. Five of these pieces will completely furnish an ordinary parlor. Weight, 250 lbs. The dimensions of the various pieces are as follows: Sofa, 42 in. high, 45 in. wide, 20 in. deep (front to back). Rocker and easy chair are also 42 in. high, 24 in. wide and 20 in. deep. When ordering, be sure and specify what color upholstery you prefer. Write for prices on single pieces, stating just what you want, upholstery, colors, etc.



This five-piece parlor suite will furnish an ordinary parlor.

We especially recommend the purchase of this parlor suite upholstered in genuine leather as it gives the suite a harmonizing as well as stylish appearance.

### PRICE OF SUITE COMPLETE IN THE VARIOUS COVERINGS IN WHICH WE CAN SUPPLY IT.

Figured or Block Velour.....	\$33.50	Boston Leather.....	\$44.00	Brocade Silk Plush.....	\$45.00	Genuine Leather.....	\$59.75
Brocade Verona Plush.....	37.50	Crushed Plush.....	45.00	Crushed Silk Plush.....	45.00		

## Colonial Design. 5-Piece Parlor or Library Suite



When ordering this parlor suite, tell us what color upholstery you prefer. Where not specified, we always ship green.

### No. 1-A-52.

We illustrate herewith an unusually massive Colonial design five-piece parlor suite. The fifth piece which is not shown in illustration is an exact duplicate of the easy chair shown on extreme left. The feature of this suite is the shaped arms, running to the top of the

back of each piece. The suite consists of Colonial Rocker, Sofa, Easy Chair and two Parlor Chairs. Frame is made of Northern birch brilliantly finished in a rich mahogany luster. Full spring edge upholstery with ruffled front. Finest oil tempered spring construction. Cotton felt and hair filling. Diamond tufted backs fitted with non-pull-out prong buttons. An immense amount of skilled labor and much time were required to make these suites. We purchased them at a recent manufacturer's sale and offer them to you at less than wholesale prices. All pieces are extra large and comfortable. Weight, 275 lbs. Coverings are all of the very choicest imported and domestic materials, in dark green, myrtle green, bronze green, tan, tobacco brown and maroon.

Imported Silk Damask.....	Price \$60.00	Crushed Plush.....	Price \$60.00	Silk Plush.....	Price \$60.00	Genuine Leather.....	Price \$67.50
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## Colonial Design. 3-Piece Parlor or Library Suite

**No. 1-A-53.** A characteristic Colonial design three-piece parlor suite. Particular attention is called to the finely moulded, massive, continuous round frame work embodied in this suite. It is made of finely grained Northern birch, highly finished and polished in rich mahogany luster. Sofa is 50 inches long. All pieces are full standard size. Suite has finest upholstered spring edge seats, and diamond tufted back. Notice that the upholstery extends around corners of back and slightly toward front. Filling consists of high grade felt and hair. Shipping weight, 200 lbs.



We have a few broken suites on hand and can supply individual pieces. Write us stating explicitly, preference as to color and covering and we will submit quotations.

Figured Velour.....	Price \$24.75	Block Velour.....	Price \$24.75	Brocade Verona Plush.....	Price \$27.50	Silk Plush.....	Price \$30.00	Brocade Silk Plush.....	Price \$30.00	Genuine Leather.....	Price \$37.50
Silk Damask.....	30.00	Crushed Plush.....	30.00	Boston Leather.....	30.75						



# Three-Piece Parlor and Library Suites

## High Grade Three-Piece Parlor Suite.

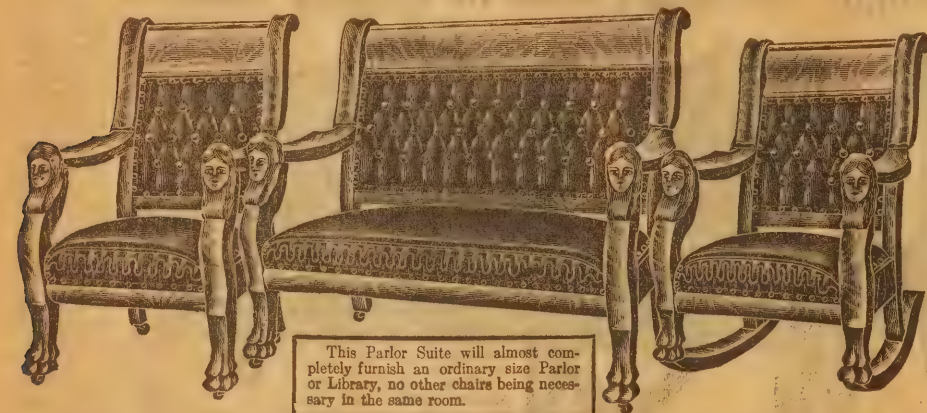
**No. 1-A-513.** This elegant three piece Parlor Suite is made of a finely grained northern birch, finished in a rich mahogany luster. It is water rubbed and hand polished to a mirror brilliancy. Has Renaissance style designing with finely executed carvings. Every portion is finely moulded and shaped by hand. Has large dragon head pilasters. Sofa is 52 in. long, while rocker and side chair are 26 in. wide. Depth of the various pieces, from front to back, is 26 in. each. Height, 34 in. Has diamond tufted backs and plain seats with guaranteed hand tied spring construction. A remarkable bargain, considering the high grade workmanship and beauty of design in this suite. Weight, 260 lbs. Price.



When ordering this Parlor Suite upholstered in silk plush, be sure and specify color desired. Unless otherwise specified, we will ship green. Mention whether you wish frame in oak or mahogany finish.

All Suites on this page shipped from Chicago Stock

Silk Plush. . . . . Genuine Leather.  
\$44.00 . . . . . \$47.50



This Parlor Suite will almost completely furnish an ordinary size Parlor or Library, no other chairs being necessary in the same room.

## One of the Best Values Ever Offered in a High Grade Parlor Suite.

**No. 1-A-514.** This high grade Library or Parlor Suite is made with a quarter sawed oak frame finished in a rich shade of golden, water rubbed and hand polished. We also have a few of these suites with selected northern birch frames, polished to a rich mahogany luster. Suite contains three pieces, as illustrated, consisting of sofa, rocker and easy chair. Each piece is 46 in. high and 25 in. deep, front to back. Rocker and chair are 28 in. wide and, sofa is 50 in. long. The design is an ideal combination of beauty and comfort, incorporating all the details of a strictly high grade suite without sacrificing any of the points of vantage found in other priced suites. Has heavy legs with finely carved claw feet. Has diamond tufted back secured with double prong buttons, reinforced with washers at the back which absolutely prevents any possibility of tearing through or pulling out. Broad shaped arms, grooved back posts, serpentine upper rails. A luxurious, rich and imposing library or parlor suite, made by hand and hair. Upholstered in genuine leather.

one of the most prominent manufacturers for the finest retail trade. The filling consists of tow, cotton felt and hair. Upholstered in genuine leather. The spring edge is hand ruffled in a very attractive manner. Weight, 275 lbs. Price, Quartered Oak, Genuine Leather Upholstery. . . . . \$51.25  
Price, Mahogany Finish, with Genuine Cuban Mahogany Back, Genuine Leather Upholstery. . . . . 50.00

## Renaissance Design, Turkish Tufted, Three-Piece Library Suite

**No. 1-A-515.** This entire massive Library Suite is a fine example of Renaissance carving. Entire frame is executed in the finest detail seldom found in modern furniture. Besides being handsome and artistic, each piece of the suite is more comfortable and restful than any other parlor piece you could possibly purchase. It is upholstered in a Turkish tufted style, with diamond tufted back and ruffled front, upholstered all around. Has guaranteed oil tempered full springs construction, all springs being hand tied in the most sanitary manner. Frame is made of selected solid birch mahogany, hand carved throughout. It is highly polished to a mirror-like brilliancy. Filling consists of tow, cotton and curled hair. Length of sofa is 54 inches, rocker and chair are 29 in wide. All pieces are 45 in. high and 32 in. deep (front to back). Weight, 300 lbs. Price, each. Silk Plush. . . . . \$72.00 Price, each. Crushed Plush. . . . . \$72.00 Price, each. Genuine Leather. . . . . \$82.00

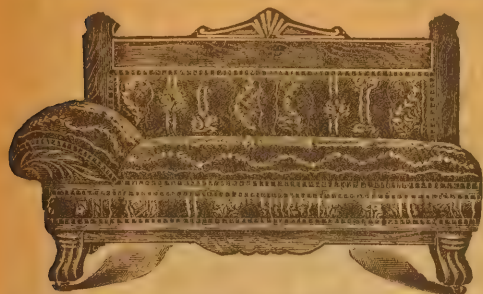


We recommend this Parlor Suite to all desiring something exceptionally fine, entirely out of the ordinary. In other words, a strictly high grade piece of Parlor Furniture, better than the ordinary grades offered by the average retail dealer.

Price, each. Silk Plush. . . . . \$72.00 Price, each. Crushed Plush. . . . . \$72.00 Price, each. Genuine Leather. . . . . \$82.00



# Bed Lounges, Adjustable Divans and Stationary Davenport



**Bed Lounge.**

**No. 1-A-95.** This bed lounge made with an American quartered oak frame; length, 6 ft.; width when closed, 23 in.; when opened as a bed, 46 in. wide. This lounge is fitted with a high grade woven

wire spring with steel coil supports and covered with an elastic cotton top mattress, attached to frame. An exceptionally attractive and up-to-date design. Can be furnished in either figured or block velour in all the latest popular colors. Be sure to state preference as to color covering desired. Weight, 185 lbs. Price, each.....\$9.00

**Bed Lounge.**

**No. 1-A-96.** Colonial design bed lounge, American quartered oak frame; measures 6 ft. long and 23 in. wide. When open for use as a bed, width is 46 in. Back is paneled. The frame comes in golden oak finish only. The base is of artistic construction with heavy raised carved ornamentation. Has same spring construction and same quality mattress as described under No. 1-A-95 bed lounge, shown at left. This couch is upholstered with the very finest quality of figured velour and can be furnished in all the colors. Weight, 135 lbs. Price, each.....\$11.50



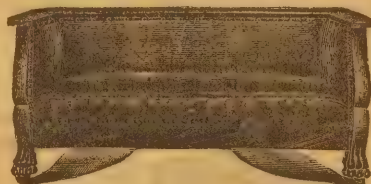
**Adjustable Divan.**

**No. 1-A-516.** Overstuffed adjustable divan. A very attractive and useful overstuffed parlor piece. Made of solid oak, finished in a rich shade of golden. Length when arms are dropped, 6 ft., 6 in.; height, 3 ft., 1 in.; width front to back, 2 ft., 7 in. When closed as shown in illustration it is 4 ft., 7 in. in length. The style is distinctly Colonial, has massive claw feet and attractively moulded frame. Guaranteed oil tempered spring construction. Cotton felt and hair filling. No tufting to catch the dirt. Has nice rosette on the back. Coverings furnished in all the most popular colors. Weight, 100 lbs.

## PRICES

Block Velour, each.....\$ 9.00  
Verona, each.....10.00  
Imitation Leather, each.....11.00  
Crushed Plush, each.....13.50

Never before in the history of the furniture business has it been possible for any concern to offer such exceptional bargains as these pieces represent. Quality and low prices make a combination hard to beat.

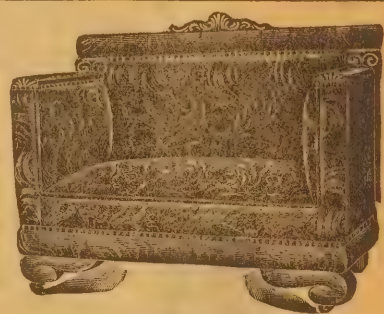


**Stationary Davenport.**

**No. 1-A-97.** This high grade stationary davenport is made with an extra massive frame and finely figured oak finished in a rich shade of golden. We can also furnish a few with birch mahogany frames. The back and sides are of uniform height, insuring pleasing outlines and symmetrical design. Colonial pilasters, large hand carved claw feet. The seat is of the best spring construction with a heavy spring edge and button front. Filling consists of tow, with an elastic cotton felt top. It is nicely polished all over. Length 6 ft., height 33 in., depth front to back 32 in. Weight, 185 lbs.

Price, upholstered in genuine leather..\$29.95

Most of these pieces come in various colored upholsterings. Where cloth fabrics are described, kindly advise color you prefer, otherwise we ship green.

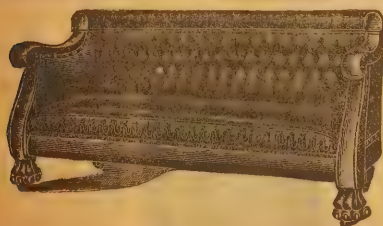


**Adjustable Divan.**

**No. 1-A-517.** Colonial design, adjustable divan. Frame is made of extra heavy quarter sawed oak, hand rubbed and polished, finished in a rich shade of golden. The back, sides, seat and front have extra heavy filling of hair and tow. The seat has a fine spring edge and full spring construction throughout. Deeply carved. The construction and material used throughout are of the highest character. Length when opened is 7 ft. 1 in.; when closed, 4 ft. 9 in. It is 44 in. high and 24 in. deep from front to back. Weight, 115 lbs.

## PRICES

Velour, each.....\$13.95  
Verona, each.....14.50  
Boston Leather, each.....17.00  
Brocade Silk Plush, each.....21.00



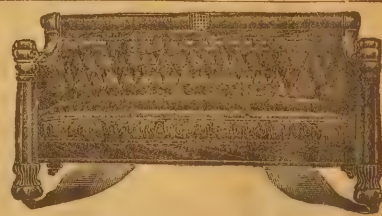
**Stationary Davenport.**

**No. 1-A-99.** Handsome and massive Colonial design stationary davenport. Frame can be furnished in either selected solid quartered oak or choicest fine grain birch mahogany. Entire frame construction is hand rubbed and polished to a piano luster. Large hand carved claw feet. Full spring seat, upholstered with genuine leather over a guaranteed spring construction. Filling consists of tow, with an elastic cotton top, ruffled front and diamond tufted back. The simplicity of construction prevents an adequate conception of the skilled labor and time required to turn out such a magnificent piece of furniture. Especially recommended where a very fine piece of parlor or library furniture is desired. Excellent for hotel or club house use. Soft and luxurious. Weight, 210 lbs. Price, upholstered in genuine leather..\$52.65



**Stationary Davenport.**

**No. 1-A-98.** This high grade stationary davenport is 64 in. long, 34 in. high and 32 in. deep. The framework is made of very heavy selected northern birch, highly polished in a rich mahogany luster. The continuous frame construction is unquestionably one of the prettiest effects ever embodied in a davenport, and we have every reason to believe that this design will prove a popular seller. It has a ruffled front seat with a tow and elastic cotton felt filling. The spring construction consists of finest oil tempered, highly carbonized high tension springs. Upholstery is secured with double prong buttons which cannot push through or pull out. The sides are plain upholstered. Covering is genuine leather. Weight, 190 lbs. Price, each.....\$37.75



**Stationary Davenport.**

**No. 1-A-100.** This high grade davenport can be furnished with either a solid oak golden finish or solid birch mahogany frame. The lot is limited and quick action is advised if you wish to secure one of these bargains. The entire framework is hand rubbed and polished to a mirrorlike luster. Note the finely carved Colonial columns, which are of octagonal design, surmounted with hand carved heads, shaped arms, back and feet. Full spring seat of finest construction. Ruffled front and hand tufted back. Non-pull-out prong buttons fastened through finest elastic cotton felt filling to inside of heavy canvas duck. Length 6 ft. 8 in., height 35 in., depth 32 in., weight 240 lbs. This is a luxurious piece of parlor or library furniture and must not be compared with the ordinary cheaply constructed class of furniture thrown promiscuously upon the market by unscrupulous dealers. We guarantee it to be one of the greatest values ever offered at the price. Price, oak or mahogany finish, upholstered with genuine leather.....\$54.00

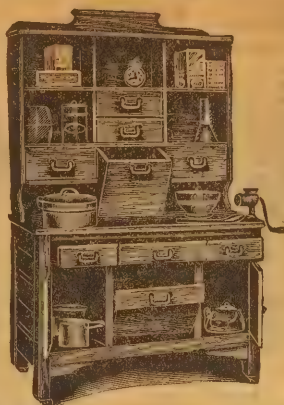


## Nine Extra Good Bargains in Chicago Stock.



**No. 1-A-382.** This Kitchen Cabinet is finely constructed of satin walnut, with a dull rubbed finish. The top of base is made of the finest seasoned bass wood and measures 41 inches long and 26 inches deep, (front to back.) It contains two large drawers and two roll front flour bins, which slide on metal wheels to prevent friction. Canopy top is 45 inches high and 12½ inches

deep, (front to back.) It contains two good size drawers for spices and two double depth drawers for miscellaneous articles. Note the double ornamented glass door cupboard with one horizontal shelf. This is an excellent piece of kitchen furniture. It is roomy, spacious, well constructed and is an article that will surprise you with its general excellence and quality. The workmanship on it is of the very highest character. Weight, 175 lbs. Price, each, **\$10.50**



**No. 1-A-446.** This Kitchen Cabinet is made of choice grain white maple highly finished. The base is 44 inches long, 26 inches wide and 32 inches high. Top is covered with zinc and contains three good sized drawers, a large tilting flour bin and two spacious compartments below for kitchen utensils. The base stands high off the floor, allowing plenty

of room for cleaning underneath without moving it. This is a sanitary feature that is highly desirable. Base contains full width bread or chopping board. The canopy top contains four large open compartments, has four large deep drawers and one tilting knead bin with ornamented front. The top is 11 inches wide, front to back, and 39 inches high. The extreme height of this kitchen cabinet is 6 feet. The workmanship throughout is remarkably good. All drawers are made with heavy slides and bottoms, and are smoothly fitted inside and out. They slide easily without sticking or binding. All front drawers, bins and doors are extended, this making them absolutely dust proof. Weight, 200 lbs. Price, each, **\$9.75**



**No. 1-A-387.** This Kitchen Cabinet is made throughout of the finest satin walnut and has a rubbed finish. The top which is covered with nickel non-corroding zinc, measures 41x 26 inches. Canopy is 36 inches high and 12 inches deep (front to back.) Base contains one chopping or bread board two drawers, 15½ inches wide and 18 inches deep inside and an extra large double door compartment below for storing utensils of all kinds. Canopy has a large flour sifter and bin, also a double glass door cupboard with one horizontal shelf. The workmanship throughout is the very finest. All drawers, ends and back are handsomely paneled and fitted with wood knobs. Weight, 190 lbs. Price, each, **\$11.00**



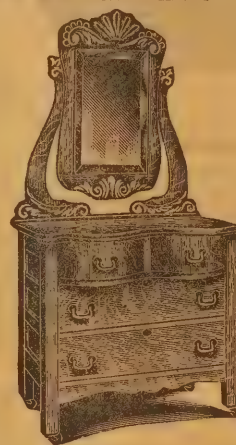
**No. 1-A-294.** We have 35 solid oak dressers like illustration shown here with in stock, which we offer at a big reduction below regular prices. These are manufacturers' samples and the quotation thereon does not cover its actual

value in workmanship or material. It is richly finished in golden gloss and embodies workmanship of the highest character throughout. The mirror is 24 in. high and 18 in. wide. Weight, 135 lbs. Price, each, **\$7.50**

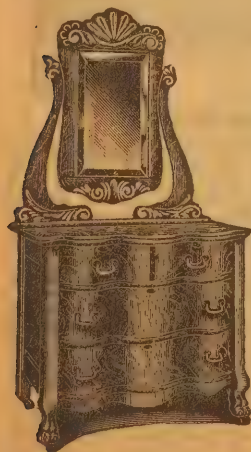


**No. 1-A-366.** This sideboard is made of solid oak, finished golden. Top is 42 in. in length and 21 in. in depth, (front to back.) The height of back from floor is 79 in. Note the two upper projecting drawers are of full dovetailed construction and one is richly lined for silverware. Note the full width drawer and double door linen compartment. All partitions between drawers, cupboards, etc., have moulded edge. The French beveled plate mirror is 12 in. high and 20 in. wide. Richly adorned with deep, clear cut hand, carved

ornamentations. Weight, 180 lbs. Price, each, **\$7.75**



on this dresser is strictly in keeping with its high grade workmanship. Weight, 120 lbs. Price, each, **\$9.00**



**No. 1-A-367.** This dresser is 40 in. in length and 20 in. deep (front to back). Has French beveled plate mirror, 24 in. high and 16 in. wide. Richly adorned with clear cut, hand carved ornamentations. All drawers are full dove-tailed construction and are smoothly finished inside and outside, are carefully fitted to slide readily. All brass trimmings are extra heavy. Note the full serpentine drawer fronts and

hand carved claw feet, made of quarter sawed oak, finished golden. Weight, 125 lbs. Price, each, **\$9.85**



This is a small lot, and we have just 30 of them in stock. Order at once if you wish to secure one of these bargains. Weight, 135 lbs. Price, each, **\$7.75**

**No. 1-A-293.** This dresser is made of figured oak finished golden. Has a shaped top, carved standards, ornamented mirror frame. The finish is golden gloss and of a character seldom or never found in dressers offered at this low price. The mirror is of extra quality French beveled plate and measures 28 in. high and 16 in. wide. The dove-tailed drawers are smoothly finished inside and out, are easily running and dust proof.



**No. 20-A-22.** This desk is made of figured white oak, finished golden or weathered, as preferred. It has a strongly reinforced base which prevents shaking. It is 32 in. in length and 23 in. deep (front to back). Stands 63 inches high. It has an assumptuously appointed desk compartment, containing two book stalls, 12 pigeon holes, one small drawer and 2 stationery or envelope racks. The roll curtain is overlapped and absolutely

dust proof. Coped panels. Book compartments have double glass doors of attractive design containing one horizontal shelf. Automatic lock. Weight, 125 lbs. Price, each, **\$9.60**

**No. 20-A-34.** Same as above without book case compartment. Weight, 100 lbs. 44 in. high. Price, each, **\$6.00**



# "Sanitax" Oak Refrigerators

## The Greatest Bargains Ever Offered in High Grade Refrigerators

All the refrigerators on this page have the following special and in some cases patented features:

1. Are made of selected kiln dried white oak throughout.
2. Extra well finished with two coats of coach varnish, golden shade.
3. Simple lines throughout, no carving or other ornamentation to catch dirt and germs or to split off.
4. Galvanized steel lined throughout, both ice chamber and food compartments.
5. Removable, cleanable shelves and drain pipe, the shelves being so constructed as not to retard ventilation.

Any of these refrigerators will pay for its cost many times over by its economic consumption of ice. The insulation walls being arranged as follows: Outside solid kiln dried oak casings, one inch of dead air space, two heavy layers of absolutely air and water proof wool felt (which being made into layers cannot pack or settle as do charcoal and similar fillings). Galvanized steel lining. The superiority of this construction has been proven by thorough scientific tests.

The ventilation principle is simple yet perfect. The cold air from the ice chamber drops to the bottom of the refrigerator and then works upwards. Onions, cheese, fish, etc., can be put on the top shelf without contaminating milk, butter, etc. below. These refrigerators have been adopted as standards by many of the leading hospitals, cooking schools, etc. These refrigerators are guaranteed in every way as they were designed to be sold for double these prices and to the best grade of trade. The hardware, hinges, handles, etc., is nickel plated. All of these refrigerators and chests are substantially and attractively paneled. They are fitted with a patent drip trap which prevents water spilling on the floor when the pan is removed for emptying purposes. The front apron is hinged to permit ready removal of the drip pan.

All refrigerators on this page are in stock with white enamel provision chamber. This white enamel is baked on in three coats and is pure white. It has an air of cleanliness and sweetness.

Contains no poisonous substances and is entirely without odor. Price, \$1.35 additional.

Compare our prices with any prices on ash, elm or other hardwood boxes.

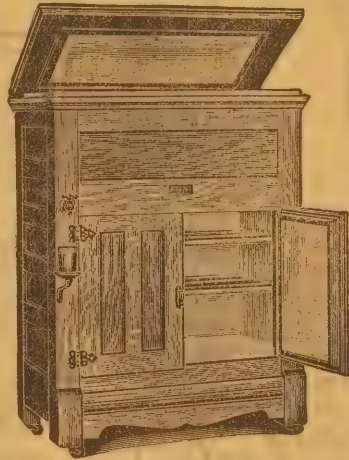


All the boxes described and priced in the following table have one door to provision compartment and are all of the top opening type.

All numbers ending with x are fitted with porcelain lined water coolers, nickel plated faucets and glass holders on the outside, as illustrated. They are all of the same measurements as the preceding boxes, with the exception of the ice chamber, which must necessarily be smaller on account of the cooler.

	Length, Inches.	Height, Inches.	Depth, Inches.	Weight, pounds.	Ice Capacity, pounds.	Price.
No. 1-A-101.	24	39	16	105	30	\$ 5.35
Ice chamber.	16	9	10			
Provision chamber.	17	15	10			
No. 1-A-102x.	12	9	10	110	25	7.55
No. 1-A-103.	25 1/2	40	17	115	50	7.25
Ice chamber.	17 1/2	10	11			
Provision chamber.	18 1/2	16	11			
No. 1-A-104x.	12	10	11 1/2	125	35	9.10
No. 1-A-105.	28 1/2	43	18	140	75	9.25
Ice chamber.	20 1/2	11	13			
Provision chamber.	21 1/2	18 1/2	13			
No. 1-A-106x.	15 1/2	11	13	150	60	11.10
No. 1-A-107.	31 1/2	45	19	155	100	10.25
Ice chamber.	23 1/2	11	14			
Provision chamber.	25	19 1/2	14			
No. 1-A-108x.	18	11	14	165	75	12.15
No. 1-A-109.	31 1/2	48	20	195	125	11.15
Ice chamber.	23	13 1/2	15			
Provision chamber.	24 1/2	21	15			
No. 1-A-110x.	18	13 1/2	15	210	100	13.10

All of the refrigerators with water coolers have measurements of ice chamber only given.

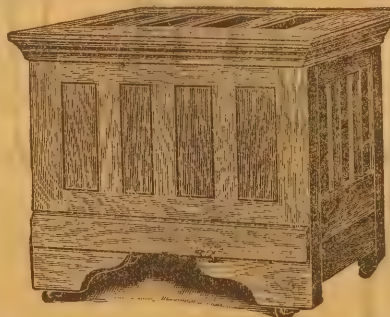


The following two refrigerators have double doors and are of the top opening type.

No. 1-A-111. Length 38 in., height 48 in., depth 20 in., weight 240 lbs., ice capacity 150 lbs.

Price.....\$14.75

No. 1-A-112x. Length of ice chamber 25 in., height 13 1/2 in., depth 15 in., weight 225 lbs., ice capacity 125 lbs. Same as No. 1-A-111, but with water cooler, etc. Price.....\$16.80



The following ice chests are of the most desirable sizes. They are solid oak, finely finished. Are fitted inside with provision chambers. For preserving food in bottles, sealed cans or wrappers, where there is no opportunity for mixing of odors, we recommend these as convenient and economical receptacles. With the provision chamber removed the ice capacity is about double that given below.

No. 1-A-117. Length 28 in., height 24 in., depth 17 in., weight 80 lbs., ice capacity 50 lbs.

Price.....\$3.70

No. 1-A-118. Length 31 in., height 26 in., depth 21 1/2 in., ice capacity 100 lbs., weight 110 lbs. \$5.25

No. 1-A-119. Length 35 in., height 30 in., depth 23 1/2 in., ice capacity 150 lbs., weight 140 lbs. \$8.10

No. 1-A-120. Length 38 1/2 in., height 34 in., depth 25 in., ice capacity 200 lbs., weight 190 lbs. \$8.75

READ THIS UNSOLICITED TESTIMONIAL.

HAMILTON, Ohio, June 25, 1909.

Chicago House Wrecking Co.,  
Chicago, Ill.

Gentlemen:

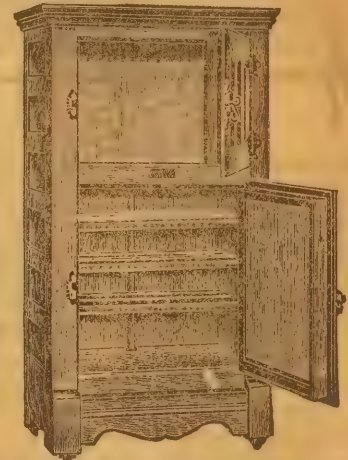
The refrigerator I ordered from your house arrived safely several days ago and is now in use in my house. So far it has proven very satisfactory and I figure, after including freight charges, drayage, etc., that I have saved fully \$6.00 by buying of you, as here the furniture houses and department stores ask from \$18.00 to \$20.00 for a refrigerator built in the style of the Sanitax I purchased from you, and then they do not have as good appearance as the Sanitax.

Thanking you for the prompt filling of my order and again assuring you that I think I received my money's worth, I remain,

Very truly yours,

Name furnished upon request.

4"



These are commonly known as apartment house boxes, the ice being put in at front instead of the top.

No. 1-A-121. Length 25 in., height 50 in., depth 18 in., weight 145 lbs., ice capacity 60 lbs.

Price.....\$9.25

Ice Chamber: Length 17 1/2 in., height 16 1/2 in., depth 13 1/2 in. Provision Chamber: Length 18 1/2 in., height 19 in., depth 13 1/2 in.

No. 1-A-113. Length 28 in., height 55 in., depth 19 in., weight 175 lbs., ice capacity 90 lbs.

Price.....\$10.75

Ice Chamber: Length 20 1/2 in., height 17 in., depth 14 in. Provision Chamber: Length 22 in., height 24 in., depth 14 in.

No. 1-A-114.

Length 31 1/2 in., height 57 in., depth 20 in., weight 225 lbs., ice capacity 125 lbs.

Price, \$13.25

No. 1-A-115.

Length 35 1/2 in., height 54 1/2 in., depth 20 in., weight 245 lbs., ice capacity 150 lbs.

Price, \$13.25

Ice chamber.

Length 26 1/2 in., height 17 in., depth 15 in.

Provision Chamber: Length 29 in., height 23 in., depth 15 in.

Price.....\$16.00

No. 1-A-116x. Same as No. 1-A-115 but with water cooler and faucet. (See illustration). Ice Capacity 125 lbs. Price.....\$18.15



## Seating and Metal Furniture



**No. 1-A-469.** This is an Ideal Folding Chair. The design is perfect in every detail. It has the following special features:

1. Impervious to accidental breakage in use or transit.
2. Stays closed when folded.
3. As readily handled as a board.
4. Exceptionally comfortable.
5. Neat, clean and attractive.
6. Can be piled to any height.
7. Made of selected and thoroughly seasoned hard maple throughout.
8. Readily stripped into sections.

Hinges are made of malleable iron. Measurements when folded, 40 in. long, 16 in. wide and  $\frac{1}{2}$  in. thick. Weight, 10 lbs each.

Shipped from Chicago warehouse stock.

Price, per dozen ..... \$ 6.25  
Price, per hundred ..... 50.00

**No. 1-A-461.** This is a very practical Folding Chair, made especially for the roughest outdoor use. Nearly all the amusement parks and boats in this city are using these chairs to the exclusion of all others. The seat rests on a large steel bolt, which connects the two sides and prevents breaking or spreading. We can positively state that these chairs are perfectly seasoned and finely finished. Made of selected maple. They are easily opened by anyone, and are "fool-proof." Weight, 10 lbs.

Shipped from Chicago.

Price, per dozen ..... \$ 6.00  
Price, per hundred ..... 48.00

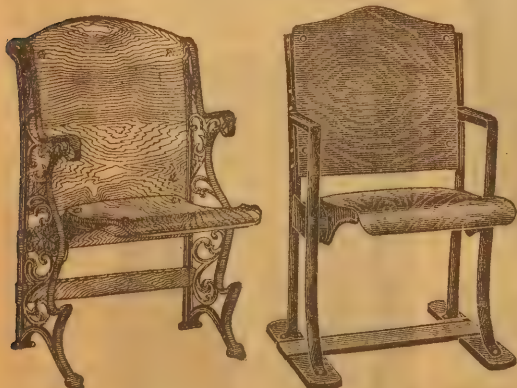


**No. 1-A-474.** This is the finest Lawn and Porch Settee manufactured. Absolutely all hardwood. The skeleton is selected rock elm. The slats are somewhat wider and are slightly differently shaped from those ordinarily used, making a much more comfortable and durable settee. The slats are placed closer together than illustrated. Iron braces on the back leg prevent the sag and end motion so common in other patterns. Painted either bright vermilion or dark green, as preferred. Tastefully striped and carefully varnished.

3 ft. long, 4 legs, weight, 20 lbs. Price ..... \$2.80  
4 ft. long, 4 legs, weight, 25 lbs. Price ..... 3.10  
5 ft. long, 6 legs, weight, 30 lbs. Price ..... 3.35  
6 ft. long, 6 legs, weight, 35 lbs. Price ..... 3.60

Three and four legged settees can be furnished with rockers for 30 cents additional. These are commonly known as double rockers. The bright, attractive colors of these articles add materially to the appearance of the home, porch or lawn, and prove exceedingly convenient and useful as well. All these are wrapped one in a bundle and shipped K. D. Shipped F. O. B. Central Michigan.

### Opera Chairs



A

B

We are headquarters for Opera Chairs, and have at all times, large stocks and we are able to supply any quantity desired of any standard size, finish or arrangement. Be sure and write us for prices before fitting out your 5 cent theatre, opera house, hall, school, church or lodge. Give us specific information, as to the number, size, general style and arrangement and we will quote you prices which will save you from 10 to 25 per cent. Cut A shows one of our popular cast iron frame chairs. Cut B shows one of our Bessemer steel frames.



**No. 1-A-468.** This is a folding settee of the highest grade, all material used, being hard wood. The slats are finished natural. The base painted red or green as preferred. Put together with screws and rivets only. No nails. Weight, 27 lbs. each. Although of the very highest quality our price is no more than the much inferior grades usually sell for. 6 ft. long.

Price, each ..... \$ 1.35  
Price, per dozen ..... 16.00

**No. 1-A-468 $\frac{1}{2}$ .** Same as above, but 3 $\frac{1}{2}$  ft. long and without the center legs. Weight, 16 lbs.

Price, each ..... \$ 0.90  
Price, per dozen ..... 10.50

We can also furnish same 4 $\frac{1}{2}$  ft. long. Weight, 21 lbs.

Price, each ..... \$ 1.20  
Price, per dozen ..... 14.00



**No. 1-A-467.** The lightest and most compact Folding Chair on the market. While light in weight, it is amply strong and well made, and will stand all rough usage. Its

exceedingly low price and its advantages will appeal to camping parties, owners of yachts, launches and many others. The seat cannot sag as the ordinary canvas seats do. Can be used to stand upon when wished. Measures 13x13 $\frac{1}{2}$ . Packed 12 in a case, weight, 65 lbs.

Price, per dozen ..... \$3.75

**No. 1-A-467 $\frac{1}{2}$ .** Same as above without back. Weight, 45 lbs. per dozen.

Price, per dozen ..... \$2.65

### Metal Chairs and Tables



Shipped from Chicago stock.

**No. 1-A-470.** These articles are of the highest quality, each and every one of them, the chairs being of the celebrated "Heart Design" (patented). This type combines beauty of design with a strength of construction which could not otherwise be obtained. At the same time it gives uniform elasticity to the chair back, making it comfortable and without the unpleasant "digging in" feature of other metal chair backs. This wire furniture was made by a firm who has experience and reputation in finishing and plating insuring the highest grade of work. We can positively state that these chairs are as nearly unbreakable as anything can be made and that the finish will wear indefinitely. Not only are they made right and designed right, but they will stay so. There is a two inch surface of each leg on the floor and they will not scratch linoleum, wax or polished floors, etc. Special attention is called to the metal stretcher of one continuous length passing through each leg, therefore cannot pull out, as the ordinary crossed type does.

All chair seats and table tops can be furnished in highly polished selected quarter sawed golden oak or seasoned selected northern birch finished mahogany.

All of the metal frames are finished in the standard finish oxidized copper sometimes known as Japanese copper. All chairs can be shipped K. D. if so specified. They are easily set up being joined together with heavy bolts. Weight of chair is 10 lbs.

"Heart Design" Chairs, each ..... \$1.30  
Childrens Chairs, each ..... 1.30  
Stools, 24 in. high, 9 $\frac{1}{2}$  in. seat ..... 1.20  
Table, illustrated 30 in. high, 24 in. in diam., or 24 in. square ..... 3.25  
Same, with 30 in. top round or square ..... 3.75  
With oblong top, 30x42 in. .... 4.50  
30x48 in. top ..... 5.00  
Childs size table 18 in. round top ..... 1.50



# Piano Stools and Benches, Plate Racks, Tabourettes, Hammocks, Invalid Chairs



**No. 1-A-362.** Piano Stool. Highly polished seat, 15 in. in diameter. The construction the best, and the workmanship being perfect it will harmonize with the most expensive piano. Weight, 35 lbs. Price, each. Mahogany finish.....\$2.20  
Oak finish.....\$2.55



**No. 1-A-329.** Piano Stool, made of birch, finished in a rich shade of mahogany. Polished brass claw feet, fitted with large glass balls. Adjustable revolving seat, 15 in. in diameter. Weight, 35 lbs. Price, each.....\$2.35  
**No. 1-A-329.** Same as above, but in polished oak, solid walnut or mahogany. Price, each.....\$4.35



**No. 1-A-145.** This Piano Stool is made of quarter sawed oak, finished golden, hand rubbed and polished to a piano luster. A new and up-to-date design that will harmonize with almost any piano that corresponds in finish. Legs are slightly tapered, adding greatly to the neatness and clean cut effect of the general design. Weight, 35 lbs. Price, each.....\$2.40



**No. 1-A-144.** Piano Bench, best workmanship and construction throughout. Length 36 in., width 15 in., height from floor 21 in. Made of extra heavy stock. We can furnish either selected quarter sawed oak finished golden, or fine grained birch, mahogany finish. Hand rubbed and polished all over. Weight, 50 lbs. Price.....\$6.10



**No. 1-A-330.** This Piano Bench is made of selected birch, finely finished in a rich shade of mahogany. It is a faithful production of the Louis XIII period. Height 20½ in. length 38 in., width 16 in. Weight, 80 lbs. Price.....\$10.00  
Quarter sawed oak.....11.00  
Solid walnut or mahogany.....13.50  
With hinge cover, music compartment beneath seat.....\$1.50 extra.



**No. 1-A-271.** This Tabourette is 18 in. high and 13 in. in diameter across top. Is made of selected oak finished golden or weathered as desired. Neat and attractive. Wt., 6 lbs. Price.....\$0.95

We have a new stock of Invalid Rolling Chairs, and can supply you with some especially fine bargains at greatly reduced prices. No matter what your requirements are in this line, get our figures and let us show you how we can save you money. Write for catalog today.



**No. 1-A-520.** This artistic Plate Rack has a lattice back and lower grooved shelf for dishes. The upper shelf is especially designed for cups, vases and similar pieces. The bottom is fitted with hooks for cups. Is made of solid selected oak, finely finished in a rich dark weathered oak. We also have a few in golden oak finish. Length 38 in., height 18 in., depth from front to back 4 in. Weight, 15 lbs. Price.....\$2.50



This Hammock Couch has a felt mattress bed. Nothing better yet devised.

**No. 1-A-349.** This hammock has a sanitary spring bottom which is soft and yielding, giving the maximum of comfort and ease of motion. Has adjustable suspension rings. Uprights are made of 30 ounce army duck strung from 14 points with best quality sash cord. Covering is best quality denim. Ruffled valance at both sides. Wind shields of the same material at back. Tan or rich green colors. This hammock will sustain a weight of 800 lbs. Length 6 ft. 4 in., width 31 in., depth 12 in. Weight, 100 lbs. Price.....\$6.65



**No. 1-A-272.** Prices quoted below are for American Flags with full number of stars made of guaranteed fast color cotton bunting. They are brand new and perfect in every respect. Suitable for Patriotic Assemblies, Parades, Parties, Fetes, as well as for innumerable decorating purposes. We can furnish the following sizes at prices designated.

Length.	Width	Price per doz.
4 ft.	2½ ft.	\$ 3.15
5 "	3 "	5.00
6 "	4 "	6.85
8 "	5 "	10.35
12 "	8 "	24.00
15 "	10 "	40.00

10x15 ft. flags have stars sewed on both sides. Shipped direct from point of purchase in Pennsylvania.

## Architects and Builders Special Attention.

We recently secured a large quantity of window shades in various colors and sizes in unbroken packages containing one dozen each. If you are in the market for shades of any kind, write at once for full information and list of our prices. We can save you fully 25 per cent on any you select.



**No. 1-A-260.** Medicine Cabinet made of solid oak, finished golden. Also a few in weathered oak. Height 22½ in., width 14½ in., depth 5 in., front to back. Has three shelves 13½ in. long. Weight, 8 lbs. Price.....\$0.95  
**No. 1-A-260.** Same as above with American Plate mirror, size 12x8 in.....\$1.20



**No. 1-A-261.** Toilet and Shaving Cabinet. Needed in every bathroom. Height, 22½ in., width 16 in., three shelves for brush, comb, etc. French beveled plate mirror 10 in. high and 8 in. wide. Made of solid oak either golden or weathered oak gloss finish. Weight, 18 lbs. Price.....\$2.50



**No. 1-A-1011.** This Tabourette is 16 in. high and 11 in. wide. It is of solid oak, finished golden or weathered. Weight, 6 lbs. Price.....\$0.30



## \$16.65 Buys This Steel Range

### The Celebrated Diadem

**No. 1-A-1100.** This high-grade steel range is made of the finest quality of Wellsville polished steel throughout. It has all the desirable features to be found in the better class of ranges. The body is lined throughout with asbestos, and the bottom oven is based with angle iron, fastened to bottom flue strips, effectually preventing buckling. The drop oven door is strongly hinged. The stove is carefully and firmly put together, all riveting being firm and tight. All points subject to special heat are doubly re-enforced.

This stove stands on a heavy base, is beautifully nickel trimmed as follows: Draft Dampers, T Shelves, Oven and Fire Box Doors, Reservoir, Front Rail of Top, all Rails to High Shelf or High Closet, all Handles and Flue Door.

This range is an excellent baker, and an economical user of fuel. The weights vary from 320 to 525 pounds, depending upon the size and the extras. We guarantee these ranges, equal in every respect to any ranges sold for much higher prices. The illustration shows this stove with High Closet and Steel Reservoir. Also with Oven Thermometer. They can also be furnished with a back rail in place of the high closet, or with high warming shelf; likewise, with or without steel or cast reservoir. The top is 31 inches from the floor. The high closet is 24 inches higher. All these stoves require No. 7 pipe.

The first figure in the number shows the size of the covers. This second figure shows the length of the fire pot. These ranges will burn hard coal, soft coal, or wood, being fitted with Duplex Grates of the best type. The main top, which contains 6 covers, (1 reducing cover) is made of the highest grade iron, and will stand the heat better than any other material. All parts of the top are carefully fitted with sufficient allowance for expansion when heated.

Price Square  
(without reservoir or  
Top, with back  
panel.

No.	Size of Lids.	Size of Oven.	Size of high closet Top.	Price
8-16	8 in.	16x20x13	46x28	\$16.65
8-18	8 in.	18x20x13	48x28	17.35
8-20	8 in.	20x20x13	50x28	18.65
9-18	9 in.	18x20x13	48x28	17.50
9-20	9 in.	20x20x13	50x28	18.80

If an enameled steel reservoir is wanted on any of the above stoves, add \$3.00. If a cast reservoir is wanted, add \$3.65. If a high shelf is wanted, add \$2.35. If a high closet is wanted, add \$3.65. If the oven thermometer is wanted, add \$1.35. If a water front is wanted, add \$2.00. It will be a simple matter for anyone to determine the cost of any size range, equipped as desired.



If you want the finest Steel Range it is possible to build, at the price we quote, if you want a range that is adapted to the use of hard or soft coal or wood, a range that will save its first cost many times over in its economic consumption of fuel, a range that is a perfect baker, a range that has all the good points of every high grade steel range; made with the defects of none, we would urge that you select this "Diadem" steel range with its equipment as illustrated. Remember we sell the "Diadem" strictly on its merits. We would be glad to accept your order for

Chicago freight.

this range with the under-standing if you do not find it satisfactory in every way, you can return it to us and we will refund your money.

## "Empire Gem" Steel Range

This is an economical cooker, and a well made steel range. While not so good as our higher priced steel ranges, it is guaranteed and sold subject to 30 days trial, with the privilege of returning at our expense, if it is not more than all we claim for it, in appearance, quality and economy, and equal to any medium grade steel range on the market.

These stoves were meant to sell at from \$20.00 to \$35.00 and are in no sense to the word, cheaply gotten up articles. The stove is handsomely nickeled with the best quality of nickel plating on the oven, fire and ash doors. Also on the flue door, reservoir, T shelves, pipe dampers, etc. This range is fitted with duplex grates, and will burn wood, hard coal or soft coal, as desired. They were built by one of the better factories and of the finest quality material throughout. The weight of this range varies from 285 to 450 pounds, depending on the size and equipment. Roomy fire box, well lined top of the best quality iron, hinged balanced oven door, draft dampers, properly arranged for the maximum of heat with minimum of fuel consumption.

This range will meet all ordinary requirements, and will stand the test of time and service. This illustration shows it with porcelain lined steel reservoir, and with roll front high closet. The following prices are for these stoves without reservoir and without the high closet, but with a back rail. Steel reservoir can be furnished for \$3.00 additional. High shelf for \$2.65 additional. High closet for \$3.65 additional, and water front for \$2.00 additional. The top of stove is 29 inches from the floor. The fire box will burn wood up to 21 inches long. The first figure in the number shows the size of the covers. The second figures show the length of the firebox for coal.

### THE EMPIRE GEM

Size No.	Size of Oven.	Size of Top.	Price, Square with Back Rail and End Shelf.
No. 1-A-521. 8-16	16x20x13	44x28	\$12.50
No. 1-A-522. 8-18	18x20x13	46x28	14.00
No. 1-A-523. 8-20	20x20x13	48x28	15.35
No. 1-A-524. 9-18	18x20x13	46x28	14.25
No. 1-A-525. 9-20	20x20x13	48x28	15.60

This stove can be furnished with oven thermometer for \$1.35 additional. All stoves without reservoir have extension shelf at the right hand side.

All Stoves on this page are shipped from Chicago Warehouse.







## Greatest Steel Range Bargain We Have Ever Catalogued Prices \$22.00 to \$30.90 Exactly Like Illustration

**No. 1-A-999.** This beautiful steel range is of the very highest grade manufactured. Made throughout of the highest grade Wellsville blue polished steel, perfectly lined with an extra heavy asbestos lining. The illustration does not do justice to this range, which was recently built, and surpasses anything else ever manufactured. The body has no seams or joints to loosen, or permit the escape of heat, and will not turn white, crack, chip or peel in the action from the fire. Requires no blacking. The top has 6 covers, one being graduated for any size utensils. No possibility of trouble from any cause.

The top over fire box, with cover, lifts and fits in three positions, permitting toasting, broiling and attention to the fire. The fire box is extra long, being deeper than the body of the stove itself, and permits large sized wood to be burned when desired.

The flue back is of cast iron, and cannot burn or rust out. The coal feed pouch at the end permits feeding the fire without disturbing the articles being cooked on top. Long draft or poker door, with two check registers, insure a complete and perfect fire. The oven is made of best heavy steel, and no oven can bake more evenly or quickly. The oven is ventilated, and the top is protected with a cast plate to distribute the heat evenly throughout. Accurately balanced drop oven door with best long handle fitted with oven thermometer, a great convenience and fuel saver. Counter balanced warming closet, roomy smoke pipe, tea shelves, large ash pan which will never have to be dumped more than once a day, lever handled duplex grate. Will burn hard coal, soft coal, wood, coke or corn cobs. The best grate made. Heavy lined fire box, 26 in. long, perfect damper construction, which permits broiling, baking and roasting perfectly. The reservoir is fitted with a porcelain lining, and will keep the water boiling hot if desired. The body is made of the highest grade 22 gauge steel, oven of 18 gauge American Bessemer steel. Stoves without reservoirs, are equipped with large nickel trimmed shelf at right.

Range No.	Size of Lids, Inches.	Size of Oven, Inches.	Size of Main Top Including Reservoir Dimensions, Inches.	Height, Including High Closet, Inches.	Size of Pipe Required, Inches.	Capacity of Reservoir, Qts.	Shipping Weight with Reservoir and High Closet, Pounds.	Price, Square with Back Panel (without Reservoir or High Closet.)	Price, Square with High Shelf (without Reservoir.)	Price, Square with High Closet.	Price, Reservoir and Back Panel.	Price, Reservoir with High Shelf.	Price, Reservoir with High Closet (as illus.)
7-16	7	16x21x14	45x28+	58	7	13+	520	\$22.00	\$24.45	\$25.60	\$25.00	\$27.50	\$28.50
8-16	8	16x21x14	45x28+	58	7	13+	520	22.15	24.60	25.65	25.15	27.65	23.65
8-18	8	18x21x14	47x28+	58	7	17	535	23.00	25.50	26.50	25.75	29.25	30.25
8-18	9	18x21x14	47x28+	58	7	17	535	23.15	25.65	26.65	26.90	29.40	30.40
8-20	9	20x21x14	49x28+	58	7	22	555	23.75	26.25	27.25	27.25	29.75	30.75
9-20	9	20x21x14	49x28+	58	7	22	555	23.90	26.40	27.40	27.40	29.90	30.90

If you wish a Water Front for any of above sizes add: For Water Front, Extra.....\$2.00



"SUPERIOR  
GEM"

## \$15.65 to \$24.40 Is Our Range of Prices on This High Grade Cast Iron Base Steel Range

This high grade cast iron steel body range was made by one of the most prominent Illinois manufacturers. It is a design that commands a high price when sold in the regular way. Description of our Empire Gem Steel Range on the bottom of preceding page, describes the body of this range very thoroughly. It is an economical cooker and is constructed of first-class material by high class workmen. It is designed to meet all ordinary requirements and will stand exceptionally hard service. In ordering this range be sure and specify by number the size you desire. Note that the first figure of the stove number shows size of the covers, and the second, or last two figures, show length of oven in inches.

No.	Size of Oven, Inches.	Price, Square with Back Guard and End Shelf.	Price, Square with High Shelf and End Shelf.	Price, Square with High Closet and End Shelf.	Price, Reservoir with Back Guard.	Price, Reservoir with High Shelf.	Price, Reservoir with High Closet.
No. 1-A-526, 8-16	16x20x13+	\$15.65	\$18.00	\$19.30	\$18.65	\$21.00	\$22.30
No. 1-A-527, 8-18	18x20x13+	16.25	18.60	19.90	19.25	21.60	22.90
No. 1-A-528, 9-18	18x20x13+	16.35	18.70	20.00	19.35	21.70	23.00
No. 1-A-529, 8-20	20x20x13+	16.65	20.00	21.30	20.65	23.00	24.30
No. 1-A-530, 9-20	20x20x13+	17.75	20.10	21.40	20.75	23.10	24.40

We can furnish a cast iron reservoir as illustrated above instead of porcelain lined steel at 75 cents additional. Water front to fit any of these ranges \$2.00. Thermometer \$1.35 additional. Weight of this range varies from 350 to 490 lbs., depending on size and style. These ranges are shipped direct from warehouse in Chicago.



# Cast Iron Ranges and Cook Stoves



No. 1-A-429. The "Invader" range is one we recommend very highly. This high grade 6-hole, cast iron range will be found most convenient, attractive and economical. It is of the best construction and workmanship throughout. The top covers and centers are strong and braced in the best way to withstand heat without warping or breaking. One lid is nested for different sized utensils.

The Oven is extra large and serviceable throughout. Each oven plate is built to prevent cracking.

The Firebox is so constructed that it will give intense heat on top without a big fire. Heavily lined. Duplex grate is of the best patented construction and will burn either coal or wood. One half turn of the shaker quickly removes ashes and clinkers without effort.

The Oven Door can be opened without stooping, being fitted with a kicker contrivance which opens it automatically. It is equipped with a high grade thermometer and assures perfect, quick and economical baking.

The Pouch Feed Door permits broiling, toasting or filling fire box without removing covers. Large ash pan under sliding hearth top.

The Flue Construction is such as to assure oven being heated at the bottom as well as at the sides. No heat is wasted.

High Warming Closet with balanced roll front is of a proper height and roomy. The reservoir has removable double covers and porcelain lined tank. Capacity, 17 quarts. Takes 7 in. pipe.

The Base permits perfect cleanliness. Height of top 30 in. Height of warming closet

from stove top 27 in. Shipping weight from 350 to 485 lbs., depending on size and equipment. Oven shelf, oven door, pipe damper, shaker, lifter, tea-shelves and warming closet are handsomely trimmed with the best silver nickel as illustrated.

Our Number	Range No.	Size of Lids, Inches.	Size of Oven, Inches.	Size of Top with Reservoir, Inches	Square with Back Rail and End Shelf.	Square with High Shelf and End Shelf.	Square with High Closet and End Shelf.	Reservoir with Back Rail.	Reservoir and High Shelf.	Reservoir and High Closet.	Size Fire Box for Coal, Inches.	Length Fire Box for Wood, Inches.
1-A-429	8-19	3	18x18x12	44x27	\$16.45	\$17.75	\$18.90	\$19.00	\$20.35	\$21.25	15x9x5+	20
1-A-429x	8-21	3	20x20x12+	46x29	18.00	19.35	20.40	21.40	22.75	23.80	17+ x 9+ x 5+	21+
1-A-429b	9-21	3	"	"	18.15	19.50	20.55	21.55	22.90	23.95	"	"

"Art Advance" Cast Iron Range; for wood or coal. Illustration shows wood burning model. The coal burning has the hearth dropped to about the height of the oven shelf, and has duplex grates. This is a very recent model, 6-hole range, with double grate, elaborately ornamented and complete in all particulars. Made and shaped for service and durability with the following special features:



When Ordering Give Size of Covers.

top. Ventilated oven, kicker door. Elaborately and sanitary base. Large ash pan. Flush top. Nickel oven door panels with door handle attached. Nickel tower rod. Swinging, removable nickel tea shelves. Nickel plate warmer. Combination ball shape and dump grate.

This stove can be furnished for wood only as follows:

Our No.	No. of Covers.	Size of Covers.	Size of Oven.	Price with End Shelf.	Reservoir with Side Shelf.
No. 1-A-2000.	4	8 in.	19x21x12	\$12.00	\$16.00
No. 1-A-2001.	4	8 or 9 in.	21x21x12	14.20	18.10
No. 1-A-2002.	4	8 or 9 in.	23x23x12	16.10	20.15
No. 1-A-2003.	6	8 or 9 in.	21x21x12	16.10	20.15
No. 1-A-2004.	6	8 or 9 in.	23x23x12	18.10	22.00

The above prices do not include the high shelf illustrated. All of these stoves can be furnished with the following special extra features: High shelf as illustrated, \$3.00 extra; polished steel high closet, \$5.00 extra; drop oven door, \$1.00 extra; oven door thermometer, \$1.35 extra.

If you wish a stove which will burn coal as well as wood (fitted with duplex grates) be sure and so specify when ordering. Price, \$1.00 extra.

All rods mounted on the outside. Large enameled reservoir with japanned covers. Reversible ornamented oven rack, large pull out hearth slide, arch ribbed covers and centers. Improved reservoirs damper operating on top. Tin lined oven doors. Large oval fire box. Cut top and centers, extra large flues, cemented oven

"Artistic" Cook Stove: This handsome and

very high grade cook stove, is shown with reservoir. Has a heavy ornamented leg base, hinged oven door with kicker. Large pouch feet. For coal and wood; duplex grates burning soft coal, hard coal or wood. Attractively nickeled knobs, front and oven door end shelf (not shown in cut) and oven shelf. This stove is very similar to the Invader but has only four covers or lids. Weighs from 280 lbs. to 350., depending on size and extras. Will meet all requirements.

REPAIRS AT COST. We will furnish you with any needed repairs for our stoves at Manufacturers' Cost.



Waterfront for any stove on this page \$2.00 extra.

No.	Size of Covers.	Size of Oven.	Price with End Shelf.	Price with Reservoir as Illustrated.
No. 1-A-2005.	7	16x16x9	\$10.00	
No. 1-A-2006.	7	18x18x10	12.00	\$15.65
No. 1-A-2007.	8	18x18x10	12.00	15.75
No. 1-A-2008.	8	20x20x11	13.75	17.40
No. 1-A-2009.	9	20x20x11	13.85	17.50



# Premier Base Burner

## Double Acting Parlor Heater

**No. 1-A-1036.** This wonderful parlor heater has 30 joints less than any other heater of its type on the market. Of course, this makes it the most air tight. It can be used as either a single or double heater, and pipe can be attached to hot air hole at the back of stove to carry heat to rooms above. It has an automatic magazine cover, and ventilated magazine to prevent any explosion of gases.

The base is so constructed that the flame is spread to all parts, furnishing an even, constant heat. The iron swinging top, reflector, front rails, ash door, screw register, name plate, columns, hot air cover, and the whole base are nickel plated, all nickel being of the highest quality. All nickel parts are ventilated, thus preventing them becoming overheated or tarnishing. This also permits a free radiation of heat into the room. The construction of this stove is a distinctive feature and its striking appearance and special points make it surpass all others. Handsome mica front and sides. Front has two double mica doors. Each side has two single mica doors. The grate is of a duplex shaking type, and it, as well as the fire pot, can be removed through the doors without dismantling the stove. Absolutely unqualified guarantee. This stove can be furnished in but two sizes, either one of which will give an immense amount of heat. For extreme cold climates and large unprotected houses, we recommend the large size, as it is always best to be on the safe side when buying a heater. This stove requires but little attention, once or twice a day as the case may be. The nickel plated top has concave sides, catching the light and heat from the top of the fire pot, and this is reflected by the silver nickel plate throughout the room. This stove is of a self-feeding type, and the shape and construction are such that the extreme amount of heat is obtained by a minimum quantity of coal. Inspect it in your home for a month, as we guarantee absolute satisfaction. Don't pay 40 or 50 dollars for a stove no better than this.

**No. 1-A-1036.** 14 in. fire pot, shipping weight 400 lbs. Price.....\$26.25  
**No. 1-A-2036.** 16 in. fire pot, shipping weight 460 lbs. Price.....28.75



Chicago  
Freight.

## Plutocrat Base Burner!

**No. 1-A-1024.** This is a very desirable and highly nickeled, trimmed parlor heater. It is of the self-feeding type, has double mica doors and arches in front and at both sides. It is profusely adorned with beautifully shaped top ornaments, swinging top urn, foot rest, etc. The fire pot is constructed along scientific lines, so as to give a maximum heat radiation and long service. It is so constructed as to require little or no attention. Once or twice during the day is sufficient to keep this heater properly regulated. Has a draw center, shaking grate and automatic magazine cover. Has a revolving draft damper, heating flues and many other desirable features, such as you will find only in the highest priced heaters. It is a cheerful, cozy and finely constructed heater, and one which we fully guarantee to give perfect satisfaction. Can be supplied in the following sizes, according to diameter of fire pot which is specified, together with heights and weights:



Central  
Ohio  
Shipment

Diameter of Fire Pot	Height	Size of Pipe Required	Weight	Price
10 in.	42 in.	5 in.	200 lbs.	\$14.60
12 in.	45 in.	6 in.	210 lbs.	16.50
14 in.	47 in.	6 in.	230 lbs.	19.25
16 in.	50 in.	6 in.	240 lbs.	23.00

## King Beauty Cast Range!



**No. 1-A-2034.** This up-to-date range is absolutely guaranteed a first-class article in every sense of the word. Considering quality and value it has no equal. It has a duplex grate adapted for burning anthracite or bituminous coal or wood. It has one sectional cover, and a large drop feeder door. The hearth is portable or loose as desired. Stove is easily operated and works to perfection. Has nickeled parts as follows: Name plate, oven shelf, knobs, band for edge of top, band for solid hearth or table, shaker and lifter. This stove is recommended to those wishing something of extra worth and attractiveness.

Our No.	Size of covers	Size of oven	Price, square with end shelf and high closet as illustrated
1-A-2034	7 in.	16x16x11	\$24.50
1-A-2035	8 in.	16x16x11	24.50
1-A-2036	8 in.	18x18x11	26.00
1-A-2037	9 in.	18x18x11	26.00
1-A-2038	8 in.	20x20x12	27.50
1-A-2039	9 in.	20x20x12	27.50

Any of these stoves can be furnished with cast reservoir for \$5.00 extra. Water front \$2.00 extra. If the high closet is not desired deduct \$5.00 from the prices given above. Weights vary from 340 to 475 lbs. depending upon size of stove and equipment. Stoves without high closet are equipped with a back rail with two swinging tea shelves.



# Oak, Cannon, Parlor and Stove Heaters

## Bahama Sun Oak



**No. 1-A-531.** This attractive residence stove is mounted with the best charcoal cold rolled iron, which will not tarnish or change color, and is warranted not to burn red. It will burn either hard coal, soft coal or wood. The fire pot is heavy and deep, and can be replaced by removing three outside bolts, and with a little trouble as to put a fire back into a cook stove. The grate is heavy, of the draw center type, and is shaken through the revolving register. The ash pan is large, with sunken bottom, and ashes will not fall out when the ash pan is removed. The ash pan itself, is the largest ever made for an Oak stove. The ash pit is joined to the bottom by a dove-tail joint, making it as air tight as if in one piece. The door is fastened to the base, and not to the frame, which makes the base absolutely air tight, as only three pieces compose the entire base. The door has a screw draft register, of the best nickel plate. The air is admitted through the screw draft register. It then passes through the hot air chamber, constructed around the middle ring, mixes with the smoke and gases, and insures perfect combustion of all fuel. This, of course, means economy, and the most heat for the least fuel.

The leg base is attractively designed. The foot rails extend 3/4 of the way around the stove, and hides the fire pot. The top ring, screw register, name plate, handles and foot rails are the finest quality nickel plate, ventilated to prevent tarnishing. The urn top is of very attractive design.

These are first class stoves, and ordinarily sell for double these prices. They must not be compared with the cheap, inferior, and almost worthless Oak stoves, being offered at similar prices.

The numbers show the diameter of the fire pot:

Stove No.	Shipping Weight Pounds	Price Each	Stove No.	Shipping Weight Pounds	Price Each
9	70	\$2.95	15	155	\$5.55
11	95	3.65	17	205	7.35
13	130	4.65	19	240	8.75

**No. 1-A-426.** This stove is of exceptionally good grade being mounted throughout with the best charcoal, cold rolled iron which will not change color or tarnish and is warranted not to turn red.

The base is very attractive, fire pot is extra heavy, hidden from view by a 1/2 length nickel plate foot rails. A large draw feed door. Large ash pan. Draw center shaking grate. Screw draft register in ash door. Fully nickeled, trimmed with a neat urn at the top.

The air in this stove is emitted to the fire pot through a special hot blast tube, fitted to the top, with which this stove is provided.

All gas and smoke is positively consumed.

These stoves have only been in the market a few years but have demonstrated their intense heating capabilities and proven their absolute worth. They are powerful and quick acting. Made to burn hard coal, soft coal or coke. Shipped from Chicago.

The outer jacket is made of polished blue steel and cannot tarnish, it is doubly protected inside against the intense heat.

No. of stove, size and dia. of fire pot.	Shipping Weight	Price
11	135 lbs.	\$4.60
13	165 "	5.65
15	180 "	6.65
17	200 "	8.30
19	235 "	9.75



## Cannon Wonder

**No. 1-A-428.** This is an excellent neat cannon stove, carefully made of first class material throughout. The body is of the best type for strength and heat radiation purposes. Fire pot is extra heavy, is corrugated and fitted with shaking and dumping grate, below which is a sliding arch door, and large ash pan. The top is fitted with a large cover through which wood, etc., can be placed in the stove. Will burn anything combustible. The larger sizes are ideal for stores, halls, etc.

No. of stove and dia. of fire pot	Height	Weight	Price
9	23 1/2	40 lbs.	\$ 1.95
10	26	55 "	2.35
11	27	70 "	3.25
13	40	120 "	6.50
15	46	160 "	7.85
17	47	220 "	9.75
20	56	300 "	12.00



## Nickel Plated Marvel Sun Oak

**No. 1-A-532.** This stove is identically the same as the Bahama Sun except that it has a much more handsome appearance. The front is fitted with large nickel plated wings of griffin design. The door is mica filled, adding considerably to the general attractiveness. Above the mica door, is a heavy nickel plated arch reflector. This can be furnished in sizes 13, 15, 17 and 19 only. Price \$1.35 more than the same size stoves in lot No. 1-A-531.

## "Marvel" Parlor Heater



**No. 1-A-427.** This beautiful parlor heater is known as the only successful base burning stove, suitable for either hard or soft coal, and also wood. It is large, strong, extremely handsome, having the following parts highly nickeled with the finest nickel plating—base, foot rest, revolving draft damper, side rails, swinging top, urn, handles and large reflector over the front mica door, main top. Has griddle cover, permitting cooking by swinging the top around. Entire top can be removed for large pieces of wood, which might not go in the large fire door. At the end of stove is large fire door, below which is a small hearth. The grate is lower than this hearth, so ashes cannot spill on the floor or rug. The ash pan is the full length of the bottom grate, which is of duplex pattern for either coal or wood, as desired. It is a fine base burner with what is known as the front diving flue construction. This is a new type of stove, which has come to stay, and is unsurpassed, excepting by a self feeder.

The number of the stove shows the length of fire box, for wood.

No.	Door	Height	Width	Weight	Price
21	9 x 12 in.	43 in.	28 in.	300 lbs.	\$13.90
23	10 x 13 "	46 "	30 "	340 "	16.40
25	11 x 13 "	49 "	32 "	385 "	18.75

## Depot Grand Cannon Heater

Chicago  
Ware-  
house  
Stock.



**No. 1-A-425.** This is a very large, extra heavy cannon stove, a special design and recommended for stores, offices, schools, ware-houses, railway depots, etc.

The fire pot or body measures 21 inches in diameter and over five feet high.

The fire pot is of an elongated barrel shape, this having been proven the strongest type as well as being best for radiating heat.

Draft is admitted through the ash pit door, which is equipped with a sliding damper, main draft however being through base of the fire attachment through numerous holes, surmounted with a ring regulating device.

Fuel is admitted through large double sliding mica doors at the front. There is an additional cover at the top which can also be used for fuel.

The leg base is extra heavy and has an extra wide and deep front which adds to the general appearance of the stove and prevents ashes dropping when cleaning out.

This stove can be fitted with a large drum at the top. This can be made by any tinner. It has a special air top construction of very few parts and will give a wonderful amount of heat. Will burn any kind of fuel desired, in fact, it will burn anything that is combustible. One size only.

This stove usually sells for more than \$25.00. Shipping weight approximately 345 pounds. Price.....\$14.75



# Coal, Wood and Gas Stoves

Shipped from Chicago  
Warehouse.



**No. 1-A-509. HOME COTTAGE heater.** This is a very handsome cottage stove of original and beautiful patent design. Is one of the most effective stoves of its kind. Is constructed of heavy moulded castings, strongly braced throughout. It is of elaborate design, has broad extensive mica, permitting free radiation of heat and making it cheery and bright.

Can furnish these for wood, for coal or gas. Be sure and specify for which it is desired.

The number of the stove shows the length of the fire pot for wood. Both upper and lower doors are mica filled. The fuel door being at the side with nickel shelf at the bottom. There is also attractive foot rest running clear across the front. Swing top.

Highly recommended and guaranteed.

Our No.	Length. in.	Height. in.	Weight. lbs.	Wood and Gas. Price.	Coal only. Price.
15	19	30	65	\$3.35	\$4.00
17	21	34	75	4.00	4.65
19	23	38	90	4.65	5.65
21	25	42	115	5.65	6.65
23	27	46	135	6.65	7.75
25	29	50	160	7.75	9.00

REPAIRS for all Catalogued Stoves  
Furnished At Foundry Cost



Wood Burning  
Bahama Box Stove.

**No. 1-A-510.** A strong substantial well made box heating stove. One of the finest ever produced and an ornament to any parlor. Elegant, massive appearance. Two covers on top. Has large swinging door. Hearth is big and roomy. Commonly used for cook stoves.

Put together with screws instead of rods, the best construction. The last two figures of numbers show the length of fire box.

No.	Height.	Weight.	Price.
20	20 in.	55 lbs.	\$3.00
22	22 "	115 "	5.65
24	24 "	155 "	7.00
26	26 "	165 "	7.90

**No. 1-A-508. Todd Parlor Heater.** These stoves have been in high repute for years, and they embody a number of new features, among which we might mention the automatic damper which prevents smoking when the door is open, adjustable lining which can be placed in the stove after it is mounted, smoke arrester, hung at top of door, inclined bottom lining, allowing draft to pass under the fuel. A very large feed door adjusted to sunk crevice in front and making it perfectly air-tight. Nickel trimmings, adjusted without the use of bolts. The door is large. Cast of the best material in an attractive design, has one slide damper, pull out hearth with roomy ash receiver. Side rail, name plates, knobs, front and top ornaments and urn are the best quality nickel. The number of the stove shows the length of the fire box. The body is made of polished blue steel, both ends being cast. The oval shape affords a maximum of strength and radiating capacity.

## CHENIERE GAS STOVE



Shipped  
from  
Cent. Ohio.

**No. 1-A-1023.** The Gas Stoves designated under this lot number represent the best product of one of the most prominent gas stove manufacturers of this country. This design is so constructed as to burn either natural or artificial gas. When ordering state which you prefer. The entire oven bottom is made of cast iron, which is a very sanitary as well as salutary advantage. The oven door has a spring balance and opens flush with the oven bottom. It is equipped with a high grade thermometer which is attractively nickel plated. It is 33 in. high and 22 in. deep, (front to back.) The base and entire front are of Rococo design. Cast iron. Note that the lower oven is fitted with a broiler pan which can be adjusted to several different heights, depending on how close you wish to get the meats, toasts, etc. to the blaze. Illustration shows the top for artificial gas. It is furnished with closed top and bridge for natural gas. The end shelves are removable. Top is fitted with three standard star burners, one triple capacity giant or double burner with simmering burner in the center, which can be used for keeping coffee hot and for other purposes where a large burner would be impracticable. This is a perfect baker and considered from all points is an exceptional value. The handles for turning on the gas are made of nickel plated brass, fitted with wood handles, insuring coolness at all times.

**No. 1-A-1023.** Size of oven is 16x16 in. Top is 36 in. long. Weight, 180 lbs. Price ..... \$14.65  
**No. 1-A-1024.** Top 38 in. long, 16x18 in. oven. Weight, 195 lbs. Price ..... \$15.15  
**No. 1-A-1025.** Has heavy cast iron legs in place of lower broiling oven. Top 36 in., 16x16 in. oven, 30 in. high. Weight, 160 lbs. Price ..... \$12.50  
**No. 1-A-1026.** 38 in. long with 16x18 in. oven, with heavy cast iron legs and without lower broiling oven. Weight, 170 lbs. Price ..... \$12.75



No. 1-A-508.

No.	Stove	Weight	Price
No. 1-A-2125		175	\$ 8.65
No. 1-A-2127		185	9.00
No. 1-A-2129		200	10.00
No. 1-A-2131		210	10.50



**No. 1-A-466.** This is a small, heavy and properly made Laundry Stove, with center and two No. 8 covers on top. These stoves have dumping grate, large pouch feed in front for coal, swinging ash door, and large ash pan. May be used either for laundry, heating or cooking purposes. Top is large enough for any wash boiler. As illustrated with 8 sided fire pot and racks for holding and heating irons. Wt., 90 lbs. Price, \$4.00

**No. 1-A-467.** Same as above with four 8 in. holes. Weight 100 lbs. Price, \$5.00

**No. 1-A-468.** Same as No. 1-A-466 but with round fire pot. Wt., 65 lbs. Price, \$2.25



# Comforters at Less Than Wholesale Prices

In Order to encourage a speedy disposal of our recent large purchase of high grade Comforters, we have divided the entire stock into six different lots on which we have quoted positively sacrifice prices. We urge that you

## Buy now at Wrecking Prices!

Retail Dealers will find it profitable to invest in a large number of the Comforters. They are soft, downy, fluffy and warmer than what you can ordinarily secure at this price. They're the product of one of the most prominent and reputable manufacturers.

We Urge all customers who appreciate a genuine bargain to order a number of these Comforters with the positive assurance that they are receiving the most wonderful values ever offered at the prices.

Remember you run no risk. We guarantee absolute satisfaction or refund your money. We expect to sell thousands of these Comforts and would suggest that you place your order at once. Don't delay until the lots are exhausted.



**No. 23-A-200.** In this lot we quote a large number of high class comforts made of extra good materials and which are highly artistic in appearance. Colorings come in red, green, blue and pinks and combinations of all of these shades. Size, 72x68. Weight, 6½ to 7 pounds each. Price, .....\$0.95

**No. 23-A-201.** In this lot are listed one of our very attractive bargains in a fancy comforter. Size, 68x75 inches. It is unusually beautiful in appearance, having a high grade covering of good quality and comes in a number of different color combinations in floral designs. This comforter is filled with pure white laminated cotton. Weight varies from 7 to 8 pounds. Price, each, ....\$1.45

**No. 23-A-202.** These high grade comforts are in unusually handsome designs and colorings in the best quality of sateen covering. They come in a variety of colors, in pinks, greens, blues, reds, etc. Size, 75x68. Weight 7 to 7½ pounds. This will make a very satisfactory comfort for general use and is an extremely good bargain. Price, each, .....\$1.65

**No. 23-A-203.** 150 high grade cotton filled comforts. Size, 68x78. Weight about 7 pounds, filled with a sanitary cotton filling, quilted stitching. Come in all colors. Price, each, .....\$1.65

**No. 23-A-204.** 250 beautiful quilted comforts,

size, 69x77. Weight about 7½ pounds, filled with pure carded cotton filling, guaranteed odorless, come in all colors. Price, each, .....\$1.95

**No. 23-A-205.** 2000 of the highest grade comforts in this enormous stock have been arranged in one lot at the exceptionally low price of \$2.35. These are full size comforts and are made in an absolutely first class manner. Filling is of the best quality of pure laminated cotton. Colorings are in all the desirable shades, such as reds, pinks, blues, greens, etc. State your preference as to color when ordering and we will fill your order in the most satisfactory manner. Weight, 6 to 8 pounds each. Price, each, .....\$2.35

# New Blankets of the Highest Quality at 30 to 60 Per Cent Below Regular Prices



**No. 23-A-198.** 2000 high grade brand new gray mining blankets made of good quality cotton, closely woven. Size, 76x60 inches. Unusually warm and comfortable, excellent for camping, mining and similar purposes. Weight, 6 pounds. Price, per pair .....\$1.48

**No. 23-A-199.** Extra quality genuine gray mining blankets. These are exceptional qualities, made of closely woven heavy cotton. These blankets are exceptionally large, measuring 76x60 inches. Weight about 6 pounds. These blankets have been thoroughly stretched and the colors are positively fast. These make an excellent blanket for camping, mining and similar purposes, where heavy warm blankets are needed. Price, per pair \$1.80



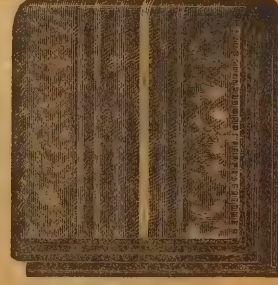
**No. 23-A-206.** 2700 pair of extra heavy quality dark blue mining blankets, closely woven. Fast colors. Size, 72x80. Weight about 8 pounds. Price, per pair, .....\$2.10

**No. 23-A-207.** 550 pair of fine all wool, white blankets, size 72x80, made of a choice quality of wool with either pink or blue stripe, nicely bound and finished. Worth \$5.00. Price, per pair, .....\$3.25



**No. 23-A-208.** 300 pair of extra fine quality, either white or gray, pure all wool blankets. Size, 72x80, finished in any color stripes. Weight approximately 5 pounds. Price, per pair, .....\$3.85

**No. 23-A-210.** 1200 pair of extra fine quality pure wool blankets, finished in either pink or blue stripes, size, 70x82. Weight about 5 pounds. Guaranteed the greatest bargain ever offered. Price, per pair, .....\$5.00



**No. 23-A-115.** 400 pair of extra heavy gray or white blankets, size, 72x86, weight approximately 5 pounds, positively the best bargain ever offered in the blanket line. Price, per pair, .....\$7.50

**No. 23-A-209.** 300 pair of the very finest quality of pure wool blankets, size, 72x84, weight approximately 6 pounds. The blankets in this line are the cream of our entire stock. The quality of this blanket can not be appreciated unless you see the blanket itself. This can be furnished in either pink or blue stripes. Price, per pair, .....\$9.00

We do not handle used home furnishings; every article guaranteed absolutely brand new and perfect.



# GAS FIXTURES

All of the fixtures on this page are up-to-date, handsome, high grade fixtures and the prices are very exceptional, quality considered. All of these goods are brand new and represent only the finest workmanship. All fixtures are fitted exactly as shown. Even the most inexpensive fixtures are the most durable made, being rigid, carefully constructed, attractive and tested for acetylene gas and for extra high pressure. Guaranteed absolutely perfect. Fixtures not specified in any standard finish can only be furnished in oxidized copper, doubtless the most acceptable finish of all for ordinary requirements. Fixtures quoted in any standard finish include oxidized copper, oxidized brass, brush finished brass, polished brass, rich gold and black, wrought iron and polished steel finishes. *Glassware, burners, etc., are not included with any fixtures.*

4 inch Rings for holding globes.....50c doz.  
Lava Tips for artificial gas.....15c doz.  
Brass Pillars for lava tips.....15c doz.

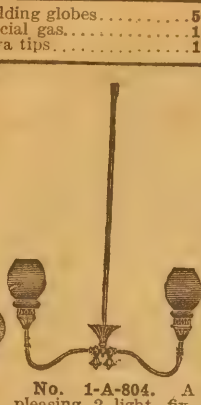
We do not sell  
glassware.



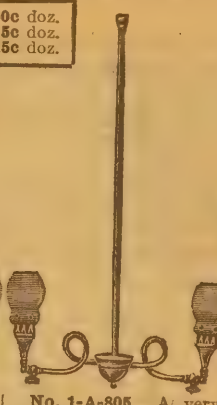
**No. 1-A-802.** Single light all pendant or ceiling drop, made of 1/2 in. pipe, 30 in. long. Price, each.....\$35c



**No. 1-A-803.** A simple, pleasing, attractive 2 light ceiling pendant, 36 in. long and 18 in. wide. Oxidized copper finish, each.....\$75c



**No. 1-A-804.** A pleasing 2 light fixture with 18 in. spread and 36 in. drop. Price, each, \$85c  
A spun vase ornamenting the upright is a very artistic morning glory design.



**No. 1-A-805.** A very pleasing 2 light fixture, 36 in. drop, 1/2 in. pipe, neatly curved arms, 18 in. spread, heavy ball center ornament exceptionally attractive, oxidized copper only. Price.....\$1.00



**No. 1-A-806.** A very durable, rigid and most attractive 2 light or 3 light fixture, illustration showing 2 light, length 36 in., spread 19 inches large corrugated body ball and vase ornaments, attractively curved arms. A fixture we cannot praise too highly. 2 light oxidized copper. Price.....\$1.15  
Price, 3 light.....1.55



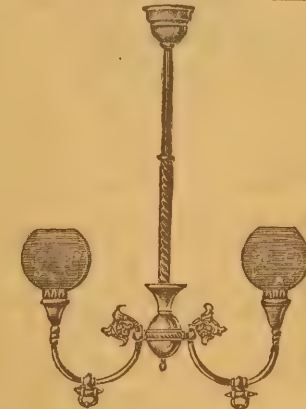
**No. 1-A-807.** Store ceiling pendant, 36 in. drop, 24 in. spread, 1/2 in. stem, pipe 1/2 in., oxidized copper. Price.....\$75c



**No. 1-A-808.** Store pendant, stem 1/2 in. pipe 36 in. long, 36 in. wide, pipe 1/2 in. diameter. The center is ornamented with a large body ball, 4 in. in diameter a very fine store fixture. Price 2 light. \$1.30; 3 light, \$1.85; 4 light, \$2.60



**No. 1-A-813.** Hall light of a beautiful and richly decorated harp design, exactly as illustrated, but without glassware, complete with ceiling plate, smoke arrester, heavy brass cased fixture, 36 in. long. Can be furnished in any standard finish desired. Price.....\$2.50



**No. 1-A-812.** A beautiful, richly ornamented genuine brass casing gas fixture, suitable for any requirements, 36 in. drop, 18 in. spread. The illustration shows a 2 light. This can be furnished for 2, 3 or 4 light, also properly connected for gas as desired. The handles are of heavy spun brass, as well as the ceiling plate, vase, large body ball and rope encased pipe. Price.....\$2.50  
Price, Three Light.....3.00  
Price, Four Light.....3.75  
Everything included except glassware. Any finish desired without extra charge.



**No. 1-A-815.** A very attractive rope bracket which can be furnished in a rich gilt or oxidized copper, no other finishes. The illustration shows this with 2 swings or hinges, attractively figured joints throughout, as well as handle. Price, gilt.....\$0.50  
Price, oxidized copper......65

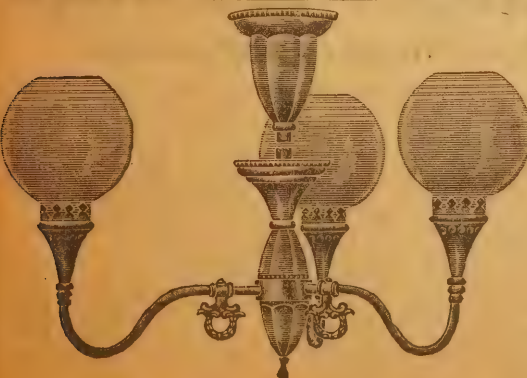
**No. 1-A-816.** Is the same, but is a stiff wall bracket and does not swing at all. Price, gilt.....\$0.25  
Price oxidized copper......30

**No. 1-A-817** is the same as No. 1 A-815 but with one swing. Price, gilt.....\$0.40  
Price, oxidized copper......50



**No. 1-A-810.** Portable lamp, complete as shown. For either gas or electricity, with 6 ft. of lamp cord or 6 ft. of lamp wire tubing as the case may be. This beautiful portable is made of the highest quality material and can be furnished in any standard finish desired, attractively ornamented base, flower vase and rope upright with 10 in. gas or electric shade of opal ground design floral decorations, with rich beaded fringe as shown. This is an exceptionally high grade reading or library lamp, or for parlor use, will more than please. Price.....\$3.75

**No. 1-A-814.** Complete as shown, for electric light. Same price. This lamp is especially recommended in a rich golden finish, this being one of the most handsome finishes for a portable lamp.



**No. 1-A-811.** A very pleasing, up-to-date and massive Gas Fixture, brass cased throughout, and of the finest possible workmanship. 36 in. long, 18 in. wide. Illustration shows 3 light. Can be furnished in any standard finish desired without extra charge. Very heavy ceiling plate, pipe and body ball; rich handles, exceptionally pleasing when seen from below. Complete as illustrated, but without glassware. Price, 2 light.....\$2.75  
Price, 3 light.....3.25  
Price, 4 light.....3.60



**No. 1-A-809.** Newel. A brass cased Gas Fixture of the highest possible grade, 20 in. high. Can be furnished in any standard finish desired, as listed above. Price, without glassware.....\$3.00

**EXTRA LENGTHS.** Any fixture desired for extra high ceiling can be furnished as long as required at 30c additional per foot or fraction thereof. Be careful and specify such extensions when desired. Any fixture will be cut down to any desired length at 10c per foot additional.



# Miscellaneous Items; All Exceptional Bargains

The various articles described below represent odds and ends selected from our enormous stock. They are quoted at prices which in every instance assure the article listed is an exceptional bargain and one which positively cannot be duplicated elsewhere. You have our word for it that the quality is such which will equal your highest expectations. We guarantee these items to be exactly as represented. If you find any to the contrary you are at liberty to return same to us and we will refund your money.

**No. 1-A-497.** 16 assorted designs in round and octagonal brass plaque wall decorations of Parisian importation in heavy relief figures. Ideal articles for dens, etc., 16 inches in diameter. Worth \$3.50. Many of these have heads of famous personages such as Michael Angelo, Rembrandt, Beethoven, Shakespeare, etc. Price, each.....**\$1.30**

**No. 1-A-499.** 1 large handsome electric light fixture suitable for the finest parlor or den. The light is concealed beneath a large bunch of glass grapes on a beautiful stand in leaf effects, worth from \$15.00 to \$25.00. Price.....**\$8.00**

**No. 1-A-500.** 1 beautiful antique copper electric portable, with a beautiful large art hand made shade of the highest craftsmanship. Price.....**\$27.50**

**No. 1-A-501.** A Turkish hammered brass hanging lamp; suitable for a den or curio hall, hung by a brass chain, hand wrought. Price.....**\$6.50**

**No. 1-A-503.** 1 beautiful saddle seat, Circassian walnut reception rocker, French legs, low back, no arms, Colonial design. Price.....**\$5.75**

**No. 1-A-504.** 1 Curly Birch ladies' writing desk of the very highest possible grade, regular French style, sample line. Price.....**\$7.50**

**No. 1-A-506.** 1 simply designed Colonial style Circassian walnut music cabinet of the choicest grain wood throughout. Price.....**\$7.75**

**NOTE:** All of the articles on this page are limited as to quantity, but are very special values indeed. You positively will be surprised with the quality of workmanship which in almost every instance could not be manufactured for less than the price we quote.

**No. 1-A-476.** 40 miscellaneous solid oak chairs in both golden and mission finishes, suitable for bed room or almost any place around the house, no more than 3 alike. Finely finished, genuine leather seats, value from \$3.00 to \$5.00, price **\$2.25**

**No. 1-A-477.** A beautiful genuine mahogany top dining table 45 inches wide, 8 feet long, with heavy pedestal and large ball and claw feet. \$40.00 value, price.....**\$13.50**

**No. 1-A-478.** 25 cloth bound books of fiction, excellent authors. These have come to us from disbanded public libraries. A set of 25.....**\$2.50**  
Some of these are worth almost the price of the entire lot.

**No. 1-A-479.** The same as No. 4, but books of travels, history and science, 25 for.....**\$3.00**

**No. 1-A-480.** 25 excellent cloth bound books suitable for youths of from 10 to 18 years of age, excellent subjects. Sell, 25 for.....**\$2.50**

**No. 1-A-481.** 8 slightly soiled elastic cotton felt mattresses, absolutely brand new, and perfect excepting that they are slightly soiled and shop worn. Some of these are worth as much as \$12.00. Price, each.....**\$4.95**

**No. 1-A-482.** 3 shop worn extra high quality box springs, 2 for iron beds and one for wood bed,

full size only, excellent ticking. Values up to \$20.00, price, each.....**\$9.00**

**No. 1-A-483.** 60 mosquito canopies complete for hanging over beds, can be folded in the day time or when not desired for use, shopworn but not damaged. Each.....**\$0.40**

**No. 1-A-484.** 16 brand new heavy oil tempered coil springs, 4 feet wide for wood bed, black japanned, considerably shop worn but perfect in every respect. Worth \$2.00, price each.....**\$0.65**

Full information of anything mentioned in this page will be gladly furnished. We cannot list books as the price quoted does not pay for the time and trouble.

**No. 1-A-486.** 1 high grade mission clock, about 6 feet high with brass hands and figures. Weight attachment, guaranteed time keeper, strikes every 1/2-hour, a very attractive article. Price **\$5.85**

**No. 1-A-487.** 1 solid mahogany davenport, extra large, upholstered with Spanish leather and all hair, very massive, hand carved frame of crotch mahogany, worth \$300.00, price.....**\$80.00**

**No. 1-A-489.** 1 Colonial full swell front Circassian walnut dresser of the very finest construction, 45 inches long, 25 inches front to back, French bevel plate mirror 24"x30", beautiful scroll standard. This wood is the costliest used for furniture. Price.....**\$24.00**

**No. 1-A-492.** 1 birdseye maple chiffonier, containing 6 swell front drawers, extra large size, handsome French bevel plate mirror 16"x22". Price.....**\$16.00**

We could fill this entire catalogue with just such bargains as the above. Be sure and write us as we have at all times thousands of miscellaneous articles. Send us a list of your requirements, giving full information and in 9 cases out of 10 we can supply you with what you wish. Give full data regarding size, finish, general style, wood, etc., and when possible mail us a cut and we will quote you from our stock.

**No. 1-A-493.** 1 bronze statue from the Paris Exposition, a beautiful work of art, 2 feet high, the figure being that of a beautiful woman. Price.....**\$13.50**

**No. 1-A-494.** 1 vase of Venetian bronze made by the celebrated Kuzzi & Co., of Venice, Italy. 16 inches base, 18 inches high, value \$100.00. Price.....**\$32.00**

**No. 1-A-495.** 1 lot of 12 inch water jars made by the above firm, all hand wrought bronze, inlaid with blue beading. A rare value at each.....**\$10.00**

**No. 1-A-496.** 1 massive Parisian bronze from the Paris Exposition, 26 inches high, the figure of a young girl mandolin player. A beautiful piece for a large pedestal or newel. Price.....**\$22.00**

**No. 1-A-900.** 27 remnants of inlaid linoleum, 1 yd. square and slightly larger, just the thing for use in front of stove, sink, under a heater, closet floors, etc. Price, each.....**\$0.35**

**No. 1-A-901.** 75 pieces print linoleum, containing 2 square yards or more. Price, each.....**\$0.45**

**No. 1-A-902.** 11 nursery chairs for infant's use, substantial and useful; worth 60c. Price, each.....**\$0.20**

**No. 1-A-903.** 100 print and inlaid linoleum cuspidor mats 15 inches square, attractive patterns. Price, each.....**\$0.05**

**No. 1-A-904.** 8 solid oak Morris chairs, roomy, comfortable and attractive worth from \$5.00 to \$6.00 each. Upholstered in velour, imitation leather, etc. Price, each.....**\$2.60**

**No. 1-A-905.** Black Japanned music stand with large wood music rack at top, brand new but slightly shop worn. Price, each.....**\$0.85**

**No. 1-A-906.** Large air tight heating stove useful for medium sized rooms where a quick hot fire is desired. Will burn anything combustible. Lined bottom, removable revolving front draft. Length for wood 24 inches, value \$3.75. Price, slightly shop worn.....**\$0.70**

**No. 1-A-907.** One lot of miscellaneous arm rockers of good roomy size, comfortable, very strong and decidedly pretty. Some of these have spring upholstered seats, others have cane and saddle seats. All of them worth from \$3.50 to \$5.00. Price each.....**\$1.95**

**No. 1-A-908.** One handsome oil painting with a rich gilt frame enclosed in a glass front shadow box size 26x20 inches, value \$10.00. Price.....**\$3.75**

**No. 1-A-909.** One landscape genuine oil painting, 25 inches long, rich gilt frame enclosed in a shadow box, value \$8.00. Price.....**\$2.75**

**No. 1-A-910.** One very massive oil painting by Miller, large and handsome frame enclosed in shadow box, length, 33 1/2 inches, width, 30 inches. Value \$30.00. Price much less than you could have it framed for.....**\$9.80**

**No. 1-A-911.** One gold leaf Louis XIV. imported French parlor suite, comprising sofa, two arm and two reception chairs upholstered in the finest silk tapestry, value \$300.00. Price.....**\$110.00**

Further descriptions of any article on this page will be gladly furnished.

**No. 1-A-912.** One quarter-sawed oak mission cellarette table with a round top, 30 inches in diameter. Heavy 2 1/2 inches square legs. The center of this table is fitted with a compartment for wines, liquors, glassware, etc., cover being concealed by the table cover. Value \$10.00. Price.....**\$2.95**

**No. 1-A-913.** 4 Folding ambulance stretchers. Very handy in case of accidents. Regular price \$7.50. Price, new but shop worn, each.....**\$1.95**

**No. 1-A-914.** 38 letter presses of the standard screw and lever type, slightly shop worn but equal to new for general service, price **\$2.25 to \$3.00**, depending on the size. Give us the size of your book and we will give you exact price and further description.

## Our New Stock of Office Furniture

### Reduced 10 to 15 Per Cent Below Our Former Quotations.

On the following pages will be found, accurately illustrated and carefully described, a portion of our roll top and flat top desks, swivel chairs, side chairs, office and directors' tables, bookkeepers' desks, chairs, stools, filing cabinets, etc. All of this material is brand new and in perfect condition. We don't catalog any shop worn, slightly defective goods, nor anything so cheaply constructed as to be of doubtful value. All features which are to be expected in first-class goods will be found in ours. Although desks are being constructed of inferior wood such as maple, ash, elm, etc., we do not catalog them. We endeavor at all times to supply our patrons with extra quality goods and neither buy nor sell goods primarily designed to be sold by description only. We have a very attractive salesroom and are doing an immense Chicago business with the better class of office furniture users.

General attractiveness, usefulness and thorough construction, such as will withstand hard service are the essential features embodied and guaranteed in every item we catalog. All of our desks are made with dust proof flexible curtains, high grade locks, built-up panels, dove-tailed and glued drawer construction (no nails) are fitted with ball bearing steel casters. The pedestal drawers in all roll top desks are automatic, locking and unlocking by lowering or raising the curtain. We neither buy nor sell "undesirables."

We do not mean to infer that our cheaper desks are as fine or as carefully

constructed as banker's desks, nor as beautifully finished, they are, however, without any exception whatsoever superior to articles usually sold for general purposes. All of the desks quoted in golden oak or any oak finish are in stock in golden oak and in most cases in weathered finish also. We will gladly refinish any of these in weathered oak, Early English, fumed oak, Antwerp or other finishes desired to match surroundings without extra charge. This work is done by our own workmen in spare time and from one to three weeks time will be required to make shipments, owing to the number of processes necessary to proper refinishing. All of our quarter sawed oak office furniture quoted as rubbed and polished will be furnished in either dull or wax finish at the same price. Our finishes are standard.

The wonderful growth of this department within the past 12 months together with the many commendatory letters received warrant us in stating that if you wish one or more good up-to-date pieces of office furniture at a decided saving we can accommodate you. We have at all times a very extensive reserve stock of miscellaneous items and would be pleased to give personal attention to any letter of inquiry. The most rapid filling of orders, consistent with thorough examination, checking and careful packing, is at all times sought for. Our immense stock and excellent shipping facilities aid us materially in these respects.



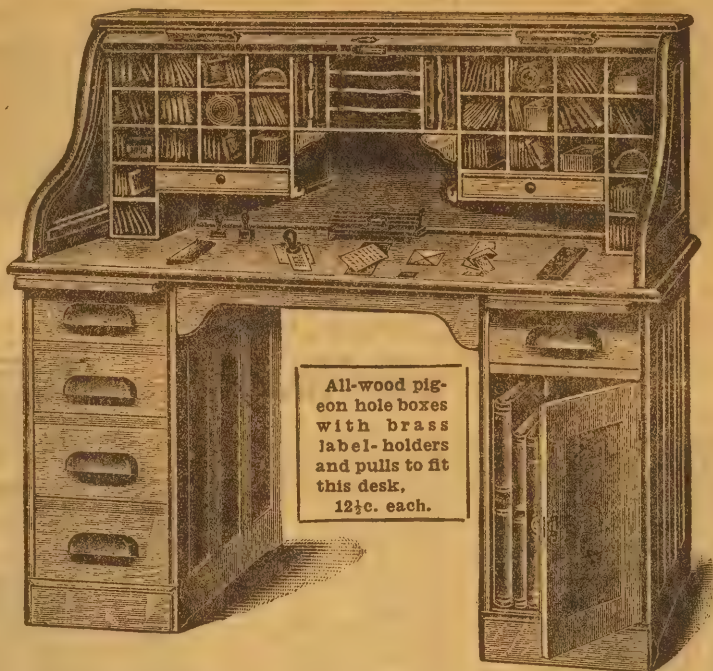
# DESIRABLE DESKS

At Less than FACTORY PRICES from  
Receivers' and Manufacturers' Sales.

An Ideal Business or Professional Man's Desk. Made of Selected Figured Oak Throughout, Finished Golden, Weathered (Mission) or Imitation Mahogany, as Preferred. We Offer It at Less Than Cost.

## No. 20-A-15.

This high roll top desk is 54 inches long, 50 inches high and 30 inches front to back. The interior is extremely practical and roomy, containing 28 pigeon-holes, each 4 inches wide, 3½ inches high and 8½ ins. deep; blotter racks at sides and back; 2 pencil racks; 4 partitions for letterheads; 4 for envelopes, and 2 private drawers. The left pedestal contains 4 drawers, all measuring 11 inches in width and 23 inches front to back inside. The three upper drawers are 3½ inches high inside, the bottom drawer 9 inches high inside. The right hand pedestal contains 1 drawer and a spacious cupboard with two large book stalls, each measuring 19 inches high, 4 inches wide and 14 inches deep. It also contains 4 large pigeon holes not shown in the illustration. Arm slides



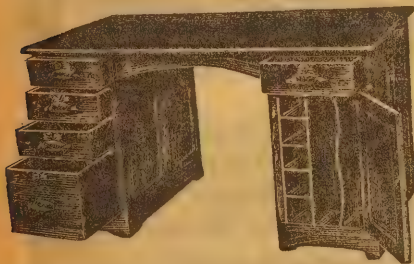
at both sides. You cannot get as roomy a desk, so well made and finished, for much less than double our price.

The curtain is dust-proof, being glued on canvas, automatically locks all drawers when closed, fitted with a double tumble lock. All panels are rotary-cut, 3-ply oak.

The finish and cabinet work must be seen to be fully appreciated. All drawers work smoothly, being full dove-tailed and smoothly finished inside and out. Guaranteed not to check, warp, bind or loosen. They are carefully packed for shipment and will reach destination in first-class condition. Ball bearing casters. Shipping weight, 250 lbs.

## \$16.00

## GOOD FLAT TOP DESKS.



No. 20-A-16. This is a companion to No. 20-A-15 shown above, being identically the same in wood, finish and size. The top measures 54 inches long and 30 inches wide. All drawers have individual locks. Two feet of knee space between pedestals and an arm slide at the top of each pedestal. Extremely well made and finished in golden oak, weathered oak or mahogany finish, as you may desire. Ball bearing steel casters. Shipping weight 150 pounds. Price . . . . . \$9.65

No. 20-A-17 is the same as No. 20-A-16 except that the right pedestal is identical with the left pedestal and contains 4 drawers of the same sizes as those in No. 20-A-15. Price, any finish. . . . . \$10.35

No. 20-A-18 flat top desk is exactly the same as No. 20-A-16, but 6 inches shorter. The top measures 48 inches long by 30 inches wide. The knee space is 18 inches, the drawers being of the same full size and with an individual lock on each. Shipping weight 140 pounds. Price, any finish. . . . . \$9.00

No. 20-A-19. This flat top desk is just the same as No. 20-A-18 except that it has 4 drawers in the right hand pedestal instead of a cupboard. Price, any finish. . . . . \$9.70

Any of the above desks can be fitted with a back panel for 75c additional.

We recommend this for teachers' use, also when desk is to be used singly in the center of a room.

## OUR GUARANTEE is Absolute Satisfaction

You are bound to be perfectly pleased  
with any desk on this page.



No. 20-A-20. This excellent salesman's or student's desk is made of selected figured oak and has a heavy solid writing bed with round corners. Four drawers of the same dimensions as in lot No. 20-A-15. Each drawer is fitted with an individual lock. Measurement 42 inches long, 30 inches wide; shipping weight 100 pounds. Price, golden oak, weathered oak or mahogany finish . . . . . \$5.50

No. 20-A-21 is exactly the same as No. 20-A-20 except that it is 48 inches long. Shipping weight 105 pounds. Price, any finish. . . . . \$6.25

## BOOKKEEPER'S STANDING DESKS.



Golden Oak, Weathered Oak,  
or Mahogany Finishes.

An entire factory stock of exceptionally well constructed and designed standing desks. These are made of solid plain oak and are finished all around. The oak legs are attached with patented bolts which give intense rigidity. This also permits the desks to be shipped K. D. with the legs off and reduces both freight expense to the purchaser and risk of breakage in shipment. A neat book rack extends the full length of the desk at the back. Drawers fitted with individual locks. All are 46 inches high and 32 inches front to back. They come in any of the following lengths:

No. 20-A-23, 4 ft. long, shipping weight 150 pounds. . . . .	\$10.50
No. 20-A-24, 5 ft. long, shipping weight 175 pounds. . . . .	11.80
No. 20-A-25, 6 ft. long, shipping weight 200 pounds. . . . .	13.50
No. 20-A-26, 7 ft. long (5 legs), shipping weight 230 pounds. . . . .	17.50
No. 20-A-27, 8 ft. long (5 legs), shipping weight 260 pounds. . . . .	19.50
No. 20-A-28, same as No. 20-A-24, but double, weight, 325 lbs. Price. . . . .	18.00
No. 20-A-29, same as No. 20-A-25, but double, golden or weathered. Price. . . . .	21.00



# RELIABLE ROLL TOP DESKS



**\$12.35**

**No. 20-A-01.** A perfectly arranged figured oak desk, compact yet with full size drawers throughout, also plenty of knee room. Just the desk for office, salesman, library or study. The large center drawer has an individual lock, the other four drawers lock automatically by closing the dust proof roll curtain. The bottom drawer is of double depth.

The interior contains eight full size pigeon holes, two small drawers, two stationery compartments, two pencil racks and three blotter racks. Closed back, 3 ply panels throughout. Ball bearing steel casters. Moulded drawer fronts. One arm slide. Desk measure 42 inches long, 30 inches wide and 45 inches high. Shipping weight 175 pounds. Golden Oak, Weathered Oak or Mahogany finish. Usual price, \$18.00. Our price..... **\$12.35**



**\$12.75**

**No. 20-A-04.** A thoroughly good roll top office desk, solid figured oak throughout. It has flexible dust proof curtain, three drawers and cupboard with book spaces, two extension slides below writing bed, built up panels. Automatic locking device on pedestal drawers. Interior as shown. Size 48 inches long, 30 inches wide,

45 inches high. Weight 200 pounds. Price..... **\$12.75**

**No. 20-A-05** is exactly the same desk as No. 20-A-04 except that it is 54 inches long and weighs 215 pounds. Price..... **\$14.75**

**No. 20-A-06** is exactly the same as No. 20-A-04 except that it is 60 inches long and weighs 225 pounds. Price..... **\$16.75**

The above three desks can be furnished with drawers in the right hand pedestal exactly the same as in the left hand pedestal at 75c additional, that is \$13.75 for the 4 ft., \$15.50 for the 4 1/2 ft., and \$17.50 for the 5 ft. lengths. Be sure and specify whether Golden Oak, Weathered Oak or Mahogany finish is desired.



**\$18.25**

**No. 20-A-08.** This high grade sanitary or leg desk is made throughout of seasoned figured plain oak. It is 54 inches long, 46 inches high and 30 inches front to back. Each pedestal contains three wide drawers with moulded fronts and an arm slide at the top. The large center drawer has private lock, all others are locked by pulling down the curtain 3 ply

built-up panels throughout. The legs are solid oak 1 1/2 inches thick, tapered at the bottoms. The interior contains three blotter racks, two pencil racks, two book stalls, two stationery compartments; two large drawers, four envelope compartments, pigeon holes as shown and a private locker with key for postage stamps, private papers, etc. High grade casters. Shipping weight 260 pounds. Price, Golden Oak, Weathered Oak or Mahogany finish... **\$18.25**

**No. 20-A-09.** Exactly the same as No. 20-A-08 but 5 ft. long. Shipping weight 275 pounds. Price, any finish..... **\$19.75**

**No. 20-A-02.** A very pleasing, thoroughly excellent home or office desk of the best figured, perfectly seasoned oak. This desk is nicely and practically arranged and has plenty of knee space between the pedestals. The left hand pedestal contains four drawers, the bottom one being of double depth; the right pedestal contains one drawer and a large book cupboard arranged inside as illustrated in desk No. 20-A-07. Both the single drawer and the cupboard have private keys. The interior is all that could be desired, being just as shown. Two arm slides; steel casters. The drawers in the left pedestals are locked or unlocked by lowering or raising the dust proof, flexible curtain.

Length 48 inches, width 30 inches, height 46 inches. Shipping weight 200 pounds. Price Golden Oak, Weathered Oak or Mahogany finish, **\$13.65**

**No. 20-A-03.** Exactly the same as No. 20-A-02 but with four drawers in the right hand pedestal, no cupboard; and with a closed paneled back. Price, any finish... **\$15.35**



**\$13.65**

**YOU WILL BE DELIGHTED WITH EITHER OF THESE DESKS.**

**No. 20-A-07.** Roll top desk exactly like illustration, solid figured oak, golden finish; also a few in weathered oak and mahogany finish. Length 54 inches, height 52 inches, depth 30 inches. One of the greatest bargains we have ever offered. Construction and cabinet work are of the highest character. The paneling is 3 ply rotary cut stock throughout. The drawers, which are of full size, operate without friction. Two arm slides above drawers. Closed back. The interior contains many convenient appliances, book stalls, pencil drawers, stationery compartments, blotter racks, etc. Shipping weight 260 pounds. An ideal business man's desk, worth far more than our extremely low price. Price..... **\$18.00**



**\$18.00**

**No. 20-A-010.** This solid oak desk has every desirable feature found in any of the desks above. It is extra wide and long measuring 33 inches front to back, 60 inches long and 46 inches high. It has the following special features not found in any of the other desks on this page: 5 ply framed-in, built-up and polished writing bed. Double top. Framed-in base. A very fine desk and a wonderful bargain at the price we quote..... **\$20.50**

Shipping weight 275 pounds.

**No. 20-A-011.** The same as No. 20-A-010 but 54 inches long. Price..... **\$19.00**

**No. 20-A-012.** Exactly the same as No. 20-A-010 but 48 inches long. Weight 250 pounds. Price..... **\$17.50**

**No. 20-A-013.** Exactly the same as No. 20-A-010 but with two cupboards in the right hand pedestal, the front cupboard being exactly the same as that shown in desk No. 20-A-07. In addition to this there is a secret divided cupboard at the end. See cut of No. 20-A-28 on next page. Price..... **\$19.75**

**No. 20-A-014.** Exactly the same as No. 20-A-011 but with two cupboards in place of four drawers in the right hand pedestal. Price..... **\$18.25**

**No. 20-A-015.** Exactly the same as No. 20-A-011 but with two cupboards in place of four drawers in the right hand pedestal. Price..... **\$16.75**

**WE HAVE ALL OF THESE DESKS IN GOLDEN OAK, WEATHERED OAK AND MAHOGANY FINISH, AT THE ABOVE PRICES.**



33 in. wide, 5 ft. long.

**\$20.50**



# HIGH GRADE FLAT TOP DESKS

## at Wholesale Prices



**\$10.50**

the extra cupboard at the end of the desk. The base is framed in all the way round. Moulded drawer fronts. The top drawer locks all those below when closed. An ideal desk for all around use, of simple clean lines, roomy and substantial, made of figured oak and nicely finished. Price, golden oak, weathered oak, or mahogany finish. . . . . **\$10.50**

No. 20-A-2. The same as No. 20-A-1, but with three more drawers in place of cupboards. Price, any finish. . . . . **11.25**

No. 20-A-3. Identically the same as No. 20-A-1, but 60 in. long and 33 in. wide. Weight 200 lbs. Price, any finish. . . . . **11.00**

No. 20-A-4. The same as No. 20-A-3, but with drawers throughout. Price, any finish. . . . . **11.75**



Also made of  
**\$17.00**

birch with polished genuine mahogany top. Price, . . . . . \$3.00 extra.

ally selected for its elegant grain. The drawers are all large, finely finished and will not bind or stick. Automatic locks throughout. The two lower drawers in the right hand pedestal are made into one extra deep drawer, partitioned for books. Moulded base all around. Drawer fronts raised. Projecting writing bed. All of these desks have a closed panel back, except the 66 in. length. Our stock comprises four sizes and both golden polished and wax finishes. Also weathered and Early English.

	Length	Width	Weight	Prices
No. 20-A-5	50 inch.	32 inch.	150 lbs.	<b>\$17.00</b>
No. 20-A-6	54 inch.	32 inch.	165 lbs.	<b>18.50</b>
No. 20-A-7	60 inch.	33 inch.	180 lbs.	<b>20.00</b>
No. 20-A-8	66 inch.	33 inch.	220 lbs.	<b>25.00</b>



**\$12.75**

glued, on. The legs are heavy and taper slightly at the bottoms. This desk combines thorough quality, neat appearance and utmost convenience. The back panel is removable to permit the desk being used double when desired. Size 54 inches long, 30 inches wide. Shipping weight, 160 lbs. Price, golden oak, weathered oak, or imitation mahogany. . . . . **\$12.75**

No. 20-A-10. 60 in. long, 30 in. wide, shipping weight, 175 lbs. Price, any finish. . . . . **13.75**

### No. 20-A-1.

An exceptionally well made and attractive oak flat top desk, measuring 54 in. long, 33 in. wide and 31 in. high. Weight, 180 lbs. This desk has five full length drawers, two arm slides and the partitioned cupboard as shown, also

No. 20-A-11. A thoroughly first class double flat top desk. The back of this desk is exactly like the front; in other words, it is two desks in one. This type of desk has become very popular in the last few years, meeting a long felt want. It saves space and money, and is for many purposes more convenient than any other form of desk. Made throughout of selected oak, unusually well finished. Extra heavy solid writing bed. Raised drawer fronts. Framed in base. Ten drawers and two cupboards. Four arm slides. Ball bearing casters. Lower drawers lock by closing the top drawer.

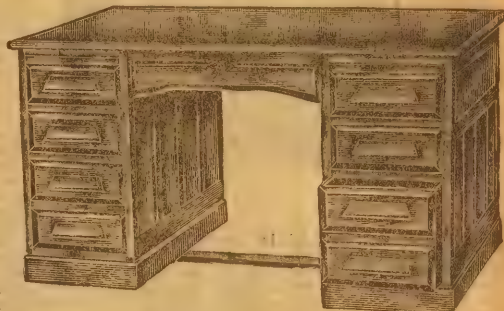
Size, 60 in. long, 46 in. wide and 31 in. high, weight, 300 lbs. Price, golden, weathered or mahogany finish. . . . . **\$18.50**

No. 20-A-12. The same desk as No. 20-A-11, but with 4 drawers in each pedestal (16 in all) and no cupboards. Price, any finish. . . . . **20.00**



**\$18.50**

An up-to-date solid quarter-sawed oak flat top desk, which on account of its width (35 in.) is usable as a double desk. These were obtained in the same purchase as No. 20-A-5 and are of the same high grade finish, construction and materials. These desks do not have the over-hanging front and consequently the drawers are longer front to back. Simple yet heavy square lines throughout. All drawers are locked by closing the center drawer which itself is locked with a high grade flat key lock.



This desk is specially designed for use in the center of a room, the back being of the same workmanship and material as the front. The top is of very heavy, 5-ply, built-up stock. We can supply it in either a light golden wax finish or high polished as preferred. Also in weathered and early English finishes.

	Length	Width	Weight	Price
No. 20-A-13	50 inch.	35 inch.	175 lbs.	<b>\$19.50</b>
No. 20-A-14	54 inch.	35 inch.	185 lbs.	<b>22.00</b>
No. 20-A-30	60 inch.	35 inch.	210 lbs.	<b>23.50</b>

### No. 20-A-31.

A double flat top desk of the very finest grade. All quarter-sawed throughout. The stock is without exception the very choicest, the workmanship the finest. This desk is designed on simple, yet massive, square lines. The top is extra thick, being of 5-ply built-up stock. The base is framed-in all around. All panels are 3-ply built-up stock handsomely and deeply moulded. The drawers are extra wide, finely finished, dove-tailed front and back; and are fitted with removable partitions. The two middle drawers of each right hand pedestal are made into one deep drawer, partitioned for books or vertical filing. The base is framed-in all around. All locks are of the highest grade. Desks of this quality are usually sold for 50 to 60 per cent more than our prices.

No. 20-A-32. 60 in. long, 48 in. wide. Shipping weight, 320 lbs. Price, any oak finish. . . . . **\$36.00**

No. 20-A-33. 66 in. long, 50 in. wide. Shipping weight, 330 lbs. Price, any oak finish. . . . . **42.50**



Two desks in one **\$36**

**THESE DESKS ARE THE BEST VALUES EVER.**



## Office Furniture

**No. 20-A-120.** This high grade sanitary roll top Desk can be furnished in two lengths. The wood is selected figured plain oak, with quarter sawed, built-up writing bed and top; also the choicest selected northern birch finished mahogany in a medium dark shade, with genuine figured mahogany built-up, 5 ply writing bed and top. These desks are of medium height, measuring 47 in. over all. The legs are 1½ in. square and are fitted with large brass shoes and large ball bearing brass casters. All drawers are smoothly finished inside and out, varnished inside, the upper drawers being fitted with removable partitions. All drawers except the center drawer have moulded fronts, wood pulls and lock automatically with the curtain. The center drawer has an individual flat key lock. Large arm slide over each pedestal. The interior is excellently arranged, finely constructed and contains an index letter file, a 3x5 card index drawer, numerous all wood pigeon hole boxes, desk tray, as well as openings for books, envelopes, stationery, pencils, blotters, etc. The oak desks are finished in a light golden wax finish, the birch and mahogany desks are finished in a dull finish unless otherwise specified. The bottoms of the pedestals are closed making the desk dust proof from below. This desk weighs in the 54 in. length 300 lbs., in the 60 in. length 335 lbs. Heavy inch and a quarter stock is used throughout with square edges, giving this desk the general appearance of those selling for \$100.00 or more. Nothing of its quality and attractiveness can be obtained in the ordinary way, except at much higher prices.

Size	Price Oak	Price Mahogany and Birch
54 in. long, 33 in. (front to back).....	\$36.25	\$38.50
60 in. long, 33 in. (front to back).....	\$9.50	42.00

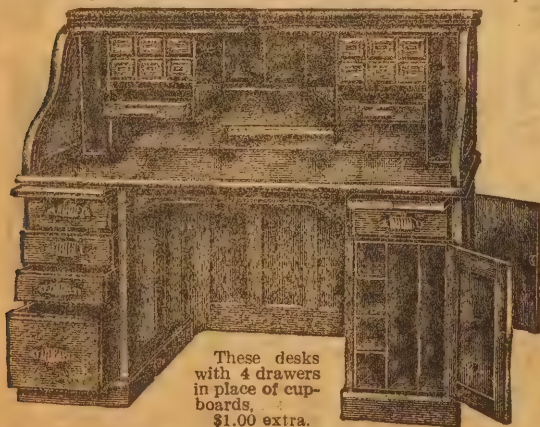


This Banker's Roll Top Desk is made of selected figured oak with choice quarter sawed top and writing bed, front and interior; or of selected Northern birch with genuine mahogany writing bed and top. The oak desk is in a light golden wax finish, the mahogany and birch desks are rubbed and polished to the highest luster. The curtain is absolutely dust proof, being of the tongued and grooved type. The height is 47 in., the depth is 32½ in.

The writing bed is heavy, being made of 5-ply built-up stock especially selected for its beautiful figure. The right hand pedestal contains three drawers, the lower one of double depth, partitioned for books. Two arm slides. These drawers lock automatically with the curtain. The center drawer has a separate lock. The interior is everything that might be wished for, being extremely practical and containing numerous pigeon hole boxes, index letter files, 3x5 card index drawer, book stall, compartment for stationery, pencils, envelopes, blotter rack, etc. The oak desk can be furnished in weathered oak, or Early English as desired. Kiln dried wood only is used, with the best of stains and varnishes. The upper drawers are partitioned. All drawers are finished both inside and out. High grade roller bearing casters. Two tumbler lock on curtain.

Length	Weight	Price	Price
		Quarter Sawed Oak	Birch and Mahogany
No. 20-A-121. 50 in. ....	265 lbs. ....	\$26.50	\$20.50
No. 20-A-122. 54 in. ....	285 lbs. ....	29.00	33.00
No. 20-A-123. 60 in. ....	315 lbs. ....	31.75	35.50

Flat top desk to match these desks will be found on preceding page.



These desks with 4 drawers in place of cupboards, \$1.00 extra.

of 5-ply built-up, framed in stock, the left hand pedestal contains four drawers, the lower one double depth, the right hand pedestal contains one drawer and two cupboards, the front cupboard being partitioned for books and other articles as shown, the back cupboard has one horizontal partition through the center. All drawers lock with the dust proof curtain. The interior is fitted with 12 oak front boxes and numerous pigeon holes as shown. All paneling is 3-ply.

Length	Depth	Height	Weight	Price
48 in. ....	33 in. ....	52 in. ....	265 lbs. ....	\$19.00
54 in. ....	33 in. ....	52 in. ....	275 lbs. ....	22.00
60 in. ....	33 in. ....	52 in. ....	300 lbs. ....	24.50



**No. 20-A-119.** These Desks are exactly the same as No. 20-A-120 without the roll top. There are no desks on the market superior in construction or finish. The top is 1½ in. thick, built of 5 ply stock cross laid and positively cannot warp. By locking the center drawer the entire desk is locked up. The back is open to permit this desk being used as a double desk if desired.

Size of Top	Weight	Price, Oak	Price, Mahogany
54x33 in. ....	200 lbs. ....	\$25.00	\$26.50
60x33 in. ....	225 lbs. ....	27.00	29.25
No. 20-A-119½. 60x48 in. ....	400 lbs. ....	38.50	42.00

This is a double desk, like illustration but with a back exactly the same as the front. The above desks are especially suitable for bankers, brokers, etc.

**No. 20-A-128.** This high grade Roll Top Desk is of extra size, being 35 inches wide and 50 inches high. They are made throughout of selected quarter sawed oak, the writing bed being 5-ply built-up stock with heavy square edges. The top and writing bed are hand rubbed and polished all over. Weathered oak or Early English finish if desired. All pedestal drawers lock automatically. All drawers are finished inside and are of the best construction and fitted at sides to prevent sticking or binding, the upper drawers are partitioned. The interior contains numerous all wood pigeon hole boxes, quarter sawed oak fronts, balance quarter sawed sycamore, 2 index letter files, 3x5 card index drawer, numerous receptacles for note heads, letter heads, envelopes, pencils, small drawer for miscellaneous articles, book stalls, blotter rack, etc. Extra heavy lines throughout.



An Ideal Desk.

Size	Weight	Price
50 in. ....	275 lbs. ....	\$30.00
54 in. ....	285 lbs. ....	33.00
60 in. ....	300 lbs. ....	36.50
66 in. ....	315 lbs. ....	40.50



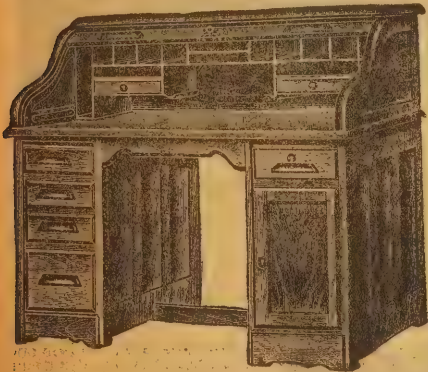
# Office Furniture — Roll Top Desks



Wood front pigeon hole boxes for any desk on this page, 12½ cents each.

moulded and fitted with wood pulls, (brass if preferred). The left hand pedestal has 4 drawers, bottom being double depth, the right hand pedestal has one drawer, the drawer containing three standard alphabetical index files. The large drawer below is partitioned for books. High grade casters. The interior contains 15 wood front pigeon hole boxes with brass combination, label holders and pulls. Price..... \$21.50

No. 20-A-100½. This can also be furnished identically the same but 48 inches long. Weight, 280 lbs. The interior is of the same general arrangement, but contains one less pigeon hole box, 14 in all. Price..... \$19.75



No. 20-A-328. This desk is made of white oak, finished golden. Has moulded drawer fronts, O. G. and coped panels, leaving no square edges. Overlapping dust proof curtain with automatic tumbler lock. Extremely practical interior containing two book stalls, 8 pigeon holes, 2 drawers, 2 pencil racks, 4 compartments for stationery and 3 blotter racks. Left hand drawers will lock automatically by closing the curtain. The cupboard and drawer above it are fitted with individual locks and key. Wood handles screwed on, brass if preferred. This desk is

54 inches long, 30 inches front to back and 45 inches high. Weight, 280 lbs. Price, each..... \$15.65

Price, each, 48 inches long..... \$13.65

No. 20-A-328½. Same as above with closed back and 4 drawers in the right hand pedestal in place of the cupboard.

Price each, 54 inches long..... \$17.35

Price each, 48 inches long..... \$15.35



Stand Only  
**\$2.65**

will be done in every instance. Price..... \$8.65

No. 20-A-102½. Same without curtain top..... 2.65

No. 20-A-102. A well made and extremely pleasing typewriter desk 32 inches long and 23 inches front to back, and 44 inches high. Made throughout of selected figured white oak and a high golden gloss finish all over. The curtain is absolutely dust proof, being made with over-lapping sections, and is fitted with a 2-tumbler automatic lock. The base is rigidly constructed to allow no play. It is attractive in design, and absolutely sanitary. Contains a small drawer for carbon papers, etc., and one arm slide for note book. The interior contains several book stalls, pigeon holes, etc., conveniently arranged to take care of all necessary papers. The typewriter shelf, to which the machine is fastened, slides forward when desired for use. Panel sides and back are coped to prevent accumulation of dust. Shipping weight, 100 lbs. It is such a simple matter to cover the machine with a desk of this sort that it



No. 20-A-104.

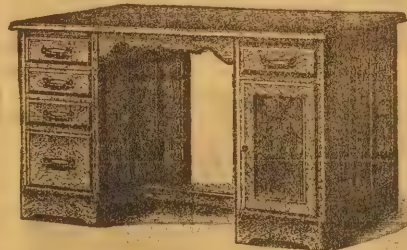
This exceptionally well arranged roll top office desk is made throughout of the best selected figured white oak, unusually well finished in a golden color. Refinished weathered oak to order without extra charge if desired. 60 inches long, 30 inches front to back and 50 inches high. The writing bed is of solid stock with rounded corners. All drawer fronts are moulded and equipped with wood handles screwed on, or brass handles if preferred. All

drawers in the left hand pedestal are automatically locked by dropping the curtain. The drawer and partitioned cupboard in the right hand pedestal are fitted with individual locks, the back is closed, the base is framed or boxed in and all panel edges are coped leaving no square corners, a very special feature. The interior is partitioned to fit all sizes of stationery, envelopes, including numerous pigeon holes of good size; book stalls, pencil and blotter racks, and small drawers. The curtain is of the overlapping type, absolutely dust proof and fitted with a tumbler lock. All drawers are of the best construction, and are carefully fitted to slide easily. A large arm slide at the top of each pedestal. Weight, 300 lbs.

Price..... \$19.50

Same, 54 inch length. Weight, 290 lbs. Price..... \$18.25

We also have a few in the 48 inch length. Weight, 280 lbs. Price.. \$16.55



No. 20-A-101. This high grade flat top desk is made of the best figured white oak, carefully seasoned and finely golden finished. The drawers are snugly fitted, yet simple in operation. The top drawers lock the lower drawers in the left pedestal. The single drawer and partitioned cupboard in the right pedestal have individual locks and panels both inside and out are coped; a very

valued feature. Moulded drawer fronts. Heavy base moulding on pedestal fronts, solid top with rounded corners. Wood or brass handles as preferred. This desk can be furnished in two sizes as follows:

Length 54 inches, width 30 inches, height 31 inches, weight 200 lbs.

Price..... \$9.75

No. 20-A-201, same as No. 101 but with 8 drawers and closed panel back.

Price..... \$11.25

No. 20-A-202, length 48 inches, width 30 inches, height 31 inches, weight, 180 lbs. Price..... \$9.00

No. 20-A-203, same as No. 20-A-202, in size and weight, has closed panel back and 8 drawers but no cupboard. Price..... \$10.50

Any desk on this page furnished in weathered oak.



No. 20-A-103. This typewriter desk is 36 inches wide, pedestal being 16 inches wide and the table top 20 inches wide. The pedestal top 30 inches high, the table of the proper height for typewriter, 26 inches. Extreme depth from front to back 24 inches. Weight, 145 lbs. The cabinet is 15 inches high. It is finely made throughout of figured selected oak, unusually well constructed and handsomely finished in golden. The drawer fronts are moulded and the upper drawer automatically locks those below. The pedestal has one arm shelf. The cabinet, which is removable, contains 3 pigeon holes, fitted with boxes, 4 shelves for stationery, and a small drawer for carbon paper, etc. The construction of this desk is extra heavy throughout, making it absolutely rigid. Wood or brass handles, good locks, moulded base. All panels are coped, this being an especially good feature.

Price, as illustrated..... \$9.35

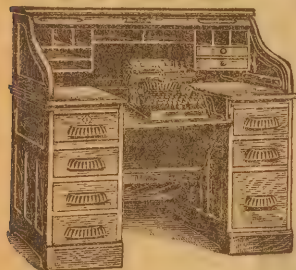
This desk can also be furnished without the top cabinet. Weight, 125 lbs.

No. J-A-108..... \$6.65



# Thoroughly Desirable Typewriter Desks

**No. 20-A-117.** A perfectly constructed sanitary desk made of the choicest figured golden oak, heavy square edges, finely built up quarter sawed top. The back and ends are selected plain oak. This desk is 36 in. long, 24 in. front to back and 30 in. high, the typewriter shelf being 26 in. high when open as shown. The pedestal has three drawers of the best construction, shallow but sufficiently large for letterheads, stationery, etc. Arm slide at top of pedestal. The cover can be raised and the machine brought in to use without the operator getting out of the chair. The cover is so constructed that it cannot accidentally fall or be knocked down, thereby injuring the machine. The typewriter is under lock and key and protected from the dust when not in use. The raising and lowering shelf is of the finest patented device, it going down and absolute horizontally and the machine does not need to be fastened in any way. The typewriter shelf is very rigid, the compartment into which it sinks being absolutely dust proof. The patent attachment below aids the user in raising and lowering the machine by the slightest pressure. It will accommodate any standard size typewriter. Finished in a beautiful golden wax finish, also weathered or Early English. Nothing yet devised can equal this little desk in general practicability. Weight, 125 lbs. Price.....\$13.25

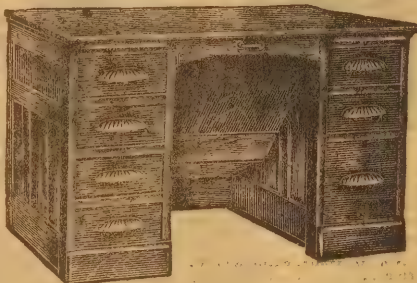


**No. 20-A-120.** This is the same as No. 20-A-119 on this page with the addition of the roll top. The curtain is tongued and grooved, is absolutely dust proof and is fitted with high grade end locks. The interior contains two drawers, six pigeon holes and four compartments for stationery, also pencil and blotter rack. Built on simple square lines, height 46 in., weight, 295 lbs. Price, golden or weathered oak..\$26.65

**No. 20-A-120½.** Is the same desk but measures 37½ in. long without the left hand pedestal and part of the interior above this pedestal, otherwise the same. Weight, 200 lbs. Price.....\$22.00

**No. 20-A-119.** Identically the same as No. 20-A-118 above but with drawers on both sides, there being four drawers and an arm slide in the left pedestal, size of top 50 in. long, 30 in front to back, weight 130 lbs. Ample knee space when used as a flat top desk. Illustration shows the desk closed. Moulded base, absolutely perfect mechanism which positively will not get out of order. Snugly fitted built up top is an assurance against warping. Price, golden or weathered oak.....\$20.00

**No. 20-A-119½.** Is identically the same as No. 20-A-119, in size and construction but made throughout of the finest quarter sawed golden oak, wax finish or a birch finished rich mahogany. Base framed in all around, drawer fronts are raised and moulded. All drawers are varnished, the upper drawer being partitioned with removable partitions. Price.....\$26.75



**No. 20-A-116.** An excellent flat top sanitary typewriter desk of the same drop construction as No. 20-A-121 on this page. Made of quarter sawed oak with exception of end panel and back. Rubbed wax golden finish, 5 ply built up top. This desk can also be furnished made throughout of birch, with genuine mahogany writing bed. Finished birch mahogany all over. Each pedestal contains three carefully fitted, roomy drawers amply large for all ordinary purposes. Extension shelf at top. Length 50 ins., width 32 ins., height when in use as a flat top desk 30 ins., height of typewriter shelf 26 ins. Weight, 160 lbs. Price in quartered oak.....\$25.35 Price in birch with genuine mahogany top and drawer fronts.....27.85

Please note none of the typewriter desks on this page require metal weights for counter balance.



**No. 20-A-140.** This typewriter cabinet is an extra quality article made throughout of perfectly seasoned, selected figured oak, finished in a rich golden gloss or weathered as preferred. Can also be furnished in imitation mahogany. It is 42 in. long and 31 in. high without including the cabinet or copy holder and is 24 inches wide. The typewriter shelf is of the proper height, 26 inches, the table part has an enclosed back and an attractively ornamented panel at the side, thus giving absolutely no play when the machine is in use. The pedestal contains three drawers, the lower one of double depth, and has a large slide at the top. The cabinet is fitted with a flexible dust proof curtain thus keeping the paper clean when not in use. At the back of the table part is fastened the note book holder fitted with a steel clip for holding the copy at the most convenient height for ready reference. The interior of the cabinet is fitted with partitions for stationery and envelopes. If paper cabinet and copy holder are not desired it can be furnished for \$1.35 less than price below. The panels are 3 ply, good lock on all drawers. Price.....\$10.00

**No. 20-A-118.** An extremely high grade figured plain oak typewriter desk, 37½ in. wide, 30 in. front to back, made of thoroughly seasoned stock, handsomely paneled sides and back, ball bearing casters and with clips for fastening the machine to the writing bed. The raising and lowering mechanism is absolutely perfect. The top drawer in each pedestal is fitted with superior locks, the lower drawers locking automatically with the top drawer. The bottom drawer is of double depth for books, etc. Large arm slide. Absolutely dust proof when closed, adding materially to the life of the typewriter. The weight of the typewriter counterbalances the weight of the top so that a minimum of energy is required to operate the desk. When closed a smooth flat working surface is given. Made in either golden or weathered oak finish. Weight, 150 lbs. Price.....\$16.50

**No. 20-A-118½.** Is identically the same as No. 20-A-118, with the following exceptions: Made throughout of the very finest selected quarter sawed oak, golden wax finish, also made of birch dull finish or rubbed and polished a rich mahogany finish. Drawer fronts are moulded, base is framed in all around. Inside of drawers finely varnished, the upper drawer being partitioned. Price (either quarter sawed oak or birch).....\$21.25

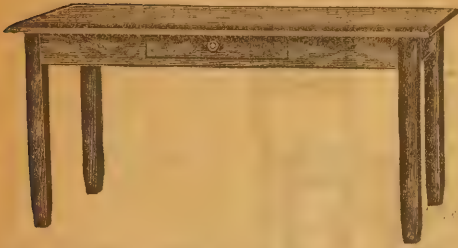


**No. 20-A-121.** This is one of the finest typewriter desks manufactured. It is 50 in. long, 35 in. front to back and 50 in. high, made throughout of the choicest white oak, golden wax finish rubbed by hand all over. The base is framed in. All drawer fronts, and panels outside and inside are raised and moulded. The writing bed is extra heavy being of 5 ply built up stock. All drawers are finely finished inside and fitted with removable partitions, the middle drawers of the right hand pedestal being made into one large deep drawer for books etc. The interior is extremely roomy containing six all wood pigeon hole boxes, brass pulls, and label holders, two small drawers for pens, eight open pigeon holes, three stationery compartments and five envelope compartments in addition to pencil and blotter racks. The drop mechanism is extremely simple and so arranged that the machine need not be fastened in any way. At the back of the typewriter shelf is a compartment for envelopes, note heads, bill heads and letter heads which drops with the machine. Tongued and grooved, absolutely dust proof curtain with double tumbler lock. We especially recommend this to parties who wish a high grade desk which can be converted into a typewriter desk when desired. Ample knee room when closed. The five ply top assures impossibility of warping and a perfect even writing bed. Weight, 325 lbs. Price.....\$38.00

**No. 20-A-121½.** Is identically the same desk 38 in. long, and without the left hand pedestal. Weight, 215 lbs. Price.....\$26.50



## OFFICE AND DIRECTORS TABLES



**No. 20-A-329.** Store, Office and Restaurant Table. A simple, square legged table of the very best construction, made throughout of selected plain oak, finished in an excellent golden gloss. The legs fasten on with bolts permitting the table to be shipped K. D. Easily set up, without any give or play. The top is heavily framed in all around with heavy moulded rim. This table can be fitted with drawers if desired at 85 cents each additional. Prices quoted below do not include any drawers.

**No. 20-A-327.** These Tables are made carefully of hardwood, finished golden. All sizes contain one small drawer. An excellent table for miscellaneous purposes and miscellaneous use around the office, for telephone, reference books, and in fact for almost any purpose. This table can be furnished in any of the following sizes with heavy square legs tapering neatly at the base and also with a square edge top.

Size of top.	Weight.	Price.
24x36 in.	35 lbs.	\$2.85
27x40 in.	40 lbs.	3.15
27x48 in.	45 lbs.	3.45
27x54 in.	50 lbs.	3.75
27x60 in.	55 lbs.	4.10
30x42 in.	65 lbs.	4.70
30x48 in.	70 lbs.	5.00
30x60 in.	75 lbs.	5.65

Size of top.	Weight.	Price.
24x 5 ft.	63 lbs.	\$ 6.15
24x 6 ft.	80 lbs.	6.70
24x 8 ft.	100 lbs.	9.50
24x10 ft.	125 lbs.	12.75
3 x 5 ft.	75 lbs.	7.00
3 x 6 ft.	90 lbs.	7.85
3 x 8 ft.	115 lbs.	10.75
3 x10 ft.	150 lbs.	14.00

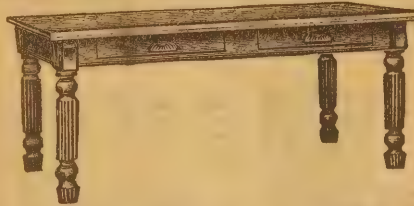
## GENERAL INFORMATION.

All the Tables on this page are made by large, high grade, up-to-date factories and each and every table is all it should be. All wood fillers, varnish, and other material are the highest quality. In lieu of personal inspection, we wish to mention the following points relative to their manufacture; all stock is thoroughly weathered seasoned, also kiln dried in modern dry kilns. This is a very important factor as large surfaces, such as table tops, show the slightest warping. All tables are shipped in standard golden oak finish unless otherwise ordered. Early English, weathered or other special finishes will be furnished without extra charge but require time. The countermand for a special finish will not be accepted after work has been begun. Special attention is called to the simple and desirable patterns of all the above tables. They are all up-to-date, clean cut, acceptable goods.



**No. 20-A-330.** This extra heavy, square leg Library and Office Table is made throughout of the choicest figured plain oak, perfectly seasoned and finely finished in a dull rubbed satin, either golden or weathered (mission) as preferred. The top is 1 1/2 in. thick and has square edges and corners, is framed in all around and contains two drawers in the 6 ft. length, one large drawer in the 5 ft. length. The heavy square legs taper slightly at the foot, giving them a very neat effect. The construction throughout is of the very finest, drawers being smoothly finished, varnished inside, full dovetailed front and back and carefully fitted. Heavy stretchers and base are additional strong factors.

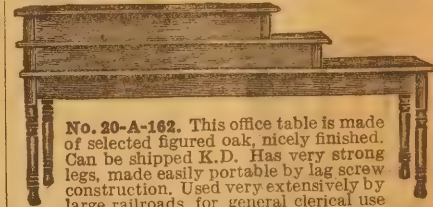
Size.	Weight.	Price.
30x60 in.	110 lbs.	\$10.15
36x72 in.	135 lbs.	12.50



**No. 20-A-136.** This Table is of pleasing design of the highest grade construction; made throughout of the most carefully selected and seasoned oak, finished in dull rubbed, satin, golden finish. The 5 ft. length contains one large drawer, the 6 ft length contains 2 full sized drawers. The legs are heavy, deeply corrugated and of pleasing design. The drawers are snugly fitted, yet will not stick or bind. All full dove-tailed front and back and carefully varnished inside. The legs are fastened on with bolts and nuts allowing the table to be shipped knocked down and easily and quickly set up. This method of shipment eliminates risk of breakage and reduces freight charges more than one-half. Also furnished in weathered oak.

Size.	Weight.	Price.
36x60 in.	80 lbs.	\$10.00
36x72 in.	100 lbs.	11.15

This Table can be furnished with a green felt top or imitation leather top put on with strips around all sides preventing any possibility of its peeling or becoming loose for \$1.35 additional on either size.



**No. 20-A-162.** This office table is made of selected figured oak, nicely finished. Can be shipped K.D. Has very strong legs, made easily portable by lag screw construction. Used very extensively by large railroads for general clerical use and telegraph table. There is no better table made for all around office use. A good mailing table. We have 175 of them in the following sizes. If drawers are desired in these tables, add \$1.10 per drawer. Weights from 65 to 150 lbs.

No. 20-A-162.....	60x30 in.	\$ 5.85
No. 20-A-162.....	72x30 in.	6.50
No. 20-A-162.....	96x30 in.	9.20
No. 20-A-162.....	120x30 in.	12.35
No. 20-A-162.....	60x36 in.	6.65
No. 20-A-162.....	72x36 in.	7.50
No. 20-A-162.....	96x36 in.	10.45
No. 20-A-162.....	120x36 in.	13.60

**No. 20-A-161.** Same table as No. 162 only that it is made with white wood top, elm frames, base finish antique, top white. Drawers if desired in this table add \$1.10 per drawer. We have 150 of the above tables in the following sizes.

No. 20-A-161.....	60x30 in.	\$ 3.80
No. 20-A-161.....	72x30 in.	4.35
No. 20-A-161.....	96x30 in.	6.50
No. 20-A-161.....	120x30 in.	8.85
No. 20-A-161.....	60x36 in.	4.50
No. 20-A-161.....	72x36 in.	5.00
No. 20-A-161.....	96x36 in.	7.50
No. 20-A-161.....	120x36 in.	9.50



**No. 20-A-138.** This director's or office table is of extra width and length, measuring 42x84 in. It is of artistic design with heavy legs, broad connecting shelf below and Colonial feet. Extra heavy square top. Two very large drawers. Although rich in appearance it has no gew-gaws or very large carvings to catch the dust and dirt. It is made throughout of the very choicest large flaky grain, quartered sawed oak. It is hand rubbed and polished all over to the highest golden luster. Can also be furnished in a high grade, weathered or Early English finish. These tables were made by a factory who use the very highest grade of weather-seasoned and kiln dried stock. The tastiness and correct proportions of this table cannot help but appeal to the most discriminating buyers. Tables no better than this are sold regularly at from \$45.00 to \$50.00. Weight, 300 lbs.

Price.....\$27.50



**No. 20-A-137.** This high grade table was made by a factory making only high class goods. It is made throughout of the choicest large flaky grain, quartered sawed oak in a light golden wax finish, or rubbed and polished if preferred. It is also made of the choicest seasoned Northern birch throughout, with genuine Cuban striped mahogany top, hand rubbed and polished. The top, which is extra heavy, is of 5 ply built-up stock with square edges. The legs taper slightly and add materially to the pleasing appearance. The 5 ft. length contains two large drawers. The 6 ft. length contains 3 drawers. The middle one opens from the opposite side. of the table. Tables are shipped K. D. and can be instantly put up. Are absolutely rigid being of the best bolted construction.

Size of top.	Weight.	Price Oak.	Price Mahogany Top.
5 ft. x 34 in.	110 lbs.	\$14.75	\$17.00
6 ft. x 34 in.	130 lbs.	17.00	19.85



## OFFICE CHAIRS

All chairs in catalog are perfectly seasoned stock, so put together that they cannot come apart. All swivel chairs are fitted with the best attachment. Not thought of. They are adjustable to any height and stay there until readjusted. The springs which regulate the tilting are very strong and are adjusted by a screw in front permitting every chair to counterbalance the weight of the occupant. All swivel chairs are equipped with high grade steel casters.



**No. 20-A-314.** This very strong, continuous Arm Chair is of light golden finish. The standards are attractive and finely shaped. Has a shaped seat. We recommend this chair for its construction and durability. Weight, 11 lbs. Price, each.....\$0.85



**No. 20-A-303.** This is a good sized saddle seat, golden elm chair of pleasing style, suitable for office, restaurant or store. The back supports and back legs are continuous. Everything the best, cannot come loose. It is additionally reinforced with braces screwed to the posts and seats. Attractively shaped legs. Price, each.....\$1.25



**No. 20-A-309.** This high grade quarter sawed oak office chair is finely constructed, of standard size, has a rounded broad panel back, heavy square posts, heavy legs, best of base and spindle construction. It has a shaped saddle seat. A high grade chair in every respect and one which will stand all sorts of abuse and always look well. Can be furnished in either excellent golden finish or weathered oak finish. Weight, 14 lbs. Price, each.....\$2.00

**No. 20-A-315.** This is a first class, golden elm tilting chair, has continuous arms, shaped seat, heavy legs, the best screw device for raising and special tilting springs which can be adjusted as desired. Weight, 35 lbs. Price, each.....\$2.65



**No. 20-A-312.** This is a very high grade desk or stenographer's chair without arms. Has a heavy saddle seat and large paneled back, supported with arm braces. Has the best of tilting and raising device. This chair is made of selected figured quarter sawed oak, hand rubbed and polished all over. It is a remarkably attractive as well as comfortable chair. Weight, 30 lbs. Price, each.....\$3.65



**No. 20-A-303.** Tilting swivel chair to match. Price, each.....\$3.00

**No. 20-A-310.** This is a very large, roomy swivel chair of the finest construction, workmanship and finish. The arms and posts are of one continuous piece of oak, steam bent and ending in heavy rolls, deeply corrugated at the top and front. The back has a broad shaped panel top. It has a shaped saddle seat, broad heavy base, and the best raising and tilting device. Made throughout of selected, quarter sawed oak, hand rubbed and polished all over. Weight, 40 lbs. Price, each.....\$6.25



**No. 20-A-316.** Known as the Douglas arm chair and is very strong as well as comfortable and pleasing, carefully made throughout of hardwood with high golden gloss finish. The back, seat and legs are tastily constructed. These chairs can be furnished painted a light yellow for the price if so specified. Has attractively turned posts, legs and stretchers, the latter being of hickory. Weight, 12 lbs. Price, each.....\$1.50



**No. 20-A-304.** This is an attractive, substantial, roomy and most comfortable chair, one which looks well and will stay looking well at all times. The legs are attractively yet simply turned, the stretchers being 10 in number, 3 in front, 3 in the sides and one in the back made of hickory, which is the best for this purpose. Can furnish with either shaped wood saddle seat or cobbler seat as illustrated. Weight, 17 lbs. Price, each.....\$3.35



**No. 20-A-311.** This is one of the most popular and comfortable up-to-date office chairs, made throughout of selected figured oak with quartered oak back. It is hand rubbed and polished all over to the highest luster. Has shaped saddle seat, strong shapely legs. No rungs in front to come in the way of the feet. The back is extra high and seat extra wide. A very high grade chair, and as strong as can be manufactured. Weight, 25 lbs. We can also furnish same in weathered oak. Price, each.....\$3.75

**No. 20-A-300.** A large, roomy, continuous arm chair, with high back with 6 flat spindles. Shaped saddle seat, well constructed and finished in a high golden gloss. Weight, 18 lbs. Price, each.....\$1.80



**No. 20-A-304.** High grade swivel chair to match. Price, either style seat.....\$4.35

**No. 20-A-306.** This Swivel Chair has the best raising and tilting construction. A heavy saddle seat and low back. Finely finished in either golden oak, polished or waxed. We especially recommend the wax finish. Weight, 45 lbs. Price, each.....\$5.35



**No. 20-A-313.** It is as comfortable as well as attractive swivel chair, high grade, up-to-date, roomy and of exceptional leather. Best of construction throughout. The finish is of a rich golden polish, frame being oak throughout. The back panels are of quarter sawed oak. Has broad, strong arms, heavy base, best tilting and raising device. The back is slightly curved for comfort. This chair and its companion were designed especially to harmonize with the heavy square office furniture now in use. Short arms prevent bumping or scratching the desk when in use. Price each, golden or weathered oak.....\$5.00



**No. 20-A-301.** A revolving chair to match No. 20-A-300 above. Large and roomy with heavy shaped saddle seat. Made of selected elm, well finished in a golden color. High back with 6 cross spindles. The base is wide, and is fitted with the best type of raising and lowering tilting device. Weight, 40 lbs. Price, each.....\$3.50

**No. 20-A-306.** Side chair to match. Price, any oak finish.....\$3.00



**No. 20-A-308.** This Bank of England Arm Chair is one of the most comfortable and attractive chairs for all around high grade use. The seat is broad as well as deep. The legs are heavy, of elegant style and the stretcher construction is such that there are no rungs interfering with the feet. The steam bent spindles and roomy seat together with slanting back, give this chair the maximum of comfort. Can be furnished, made throughout of the choicest seasoned, specially selected quarter sawed oak of golden finish, hand rubbed and polished to the highest luster or wax finish. We can also furnish same in solid mahogany, polished or dull finish, as preferred. Weight, 30 lbs. Price, each, oak.....\$ 7.00 Price, each, solid mahogany..... 11.00



**No. 20-A-307.** This is a well known Bank of England Chair. The back and arms are of one continuous piece, the arms being spread and short to prevent interfering with the desk. The seat is extra deep, front to back, as well as extra wide, and is saddle shaped to fit the body and extra heavy. The base is broad, extra heavy, and the adjustable tilting mechanism is the very best. Can be furnished in polished quarter sawed oak, golden finish, also wax finish. Weight 40 lbs. Price, each, quarter sawed oak.....\$ 8.35 Price, each, solid mahogany..... 12.35

**No. 20-A-302.** This plain stool is strongly made of seasoned elm, finished in a rich golden oak. It is adapted to bookkeepers, clerks, hotels, stores, etc. Seats are of solid wood dished for comfort. Weight, about 10 lbs. We can furnish same in three sizes, viz. 18, 24 and 30 in. Price each, respectively.....\$0.55, \$0.70 and \$0.80.





# CHICAGO HOUSE WRECKING CO., 5th & IRON STREETS, CHICAGO.



Price, Swivel Chair ..... \$6.00 Price, Arm Chair ..... \$4.65

**No. 20-A-317.** The two chairs shown here are companion pieces. These chairs are made of northern birch throughout with genuine mahogany back panels. Also furnished in selected golden quarter sawed oak. The arms are broad, shortened to prevent marring the desk. The seat is wide and of a saddle shape. The swivel chair has a very heavy base with the best tilting and raising device and has high grade casters. The stationary chair has tapering legs, square stretchers which will not interfere with the feet and has a box frame rim all around underneath the seat. Weight, 40 and 30 lbs. respectively.

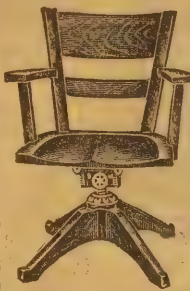


Price, Swivel Chair ..... \$5.25 Price, Side Chair ..... \$4.00

**No. 20-A-401.** These high-grade birch chairs have genuine mahogany top and back panels, and may be virtually considered solid mahogany chairs. The construction is of the best throughout. They are extra large and have comfortable saddle seats that are so strongly made they cannot break. Side chair has tapered legs and square spindles with box framed-in seat all around. Made for use in high-grade offices. Weight of swivel chair, 25 lbs.; side chair, 16 lbs.



**No. 20-A-318.** These chairs have large seats, broad arms, tapering legs, square stretchers on base. The back is rounded and chair has a shaped saddle seat. Quarter-sawed oak. Can be furnished in golden oak, weathered oak or Early English finish. Large, strong and comfortable. Weight, 40 and 30 lbs. respectively.



**No. 20-A-402.** We illustrate herewith a swivel and arm chair to match, unquestionably two of the finest chairs ever offered at the low price we quote. They have both saddle and genuine leather spring up, padded seats, square stretchers and continuous arms. Swivel chair has best tilting and raising device made. Made of quarter sawed oak, finished golden. Hand carved feet on arm chair. Weight, 20 and 40 lbs. respectively.



Price, swivel chair, saddle seat.....\$5.75

leather seat.....6.50

Price, arm chair, saddle seat.....5.00

leather seat.....7.75



**No. 20-A-320.** This revolving stool is strongly constructed of seasoned elm in a thoroughly good golden gloss finish. Has heavy iron castings, giving it a maximum of strength. The top which is revolving can be adjusted to desired height and will stay there until readjusted. Can be furnished in golden finish only; four heights, viz., 18, 24, 30 and 36 in. Weight about 18 lbs.

Price 18 in.....\$1.60

" 24 ".....1.70

" 30 ".....1.80

" 36 ".....1.85



**No. 20-A-400.** The best type-writer chair yet devised. Adjustable to any height; the back being of genuine leather, heavy upholstering, adjustable to any desired height; also can be tilted forward or backward to any position. Strong, attractive base; roomy and comfortable saddle or cane seat as preferred. The saddle seat is of the best quarter-sawed oak, an ideal chair, and the one which you should buy. Best golden oak, hand rubbed and polished or waxed, also weathered oak.

Price.....\$4.65



**No. 20-A-420.** The swivel chair is of the best raising and tilting device, with strong spring. The arm chair is a very fine office or hotel chair. They weigh 40 and 20 pounds, respectively.

**No. 20-A-421.** Price of swivel chair.....\$5.00

**No. 20-A-420.** Price of arm chair.....3.35



**No. 20-A-319.** A pleasing, strongly constructed and comfortable type-writer chair. The seat and back are made of American quarter-sawed oak throughout, with shaped round seat of good size, golden gloss finish. The spring back is adjustable in height and has a 4 in. play front to back. The seat does not tilt but can be adjusted to any desired height, and will stay until readjusted. Weight, 22 lbs.

Price, each.....\$3.50



**No. 20-A-322.** This is a good revolving stool, strongly constructed of elm, golden gloss finish, has rounded panel back with 6 spindles, the posts being curved at the bottom and screwed to the solid shaped seat. The seat is adjustable to 20 or 33 in. high from the floor. Has strong, attractive base and castings.

Price, each.....\$2.05



nished in a high grade of birch, finished mahogany.

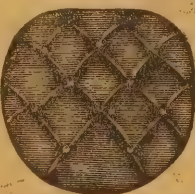
Price, with either seat.....\$4.50

**No. 20-A-323.** A high grade, solid oak desk stool, the very best of its type manufactured. Adjustable in height from 31 in. to 35 in. Panel back of quarter-sawed oak. It is finished in a rich golden gloss. Has extra heavy castings, foot rail all around and can be furnished with either the best quality hand cane seat or with saddle shaped quarter-sawed oak saddle seat. Also furnished in a high grade of birch, finished mahogany.



**No. 20-A-321.** This is one of the finest standing Desk Stools made. Has thick saddle shaped seat. The base is of the strongest type, extra heavy foot rail all around, the legs spreading at the base thus giving plenty of foot hold. Made of solid oak throughout. Quarter sawed. It is hand rubbed and polished to the highest finish. The seat in addition to, being adjustable to any height is tilting and can be regulated to suit the weight of the user. Height of seat 32 inches. Also furnished in birch mahogany.

Price, each.....\$6.00



**No. 20-A-325.** This cushion is 19 ins. wide and 18 ins. in length. It is finely upholstered with tow and moss, diamond tufted, and the buttons will not pull through the covering or will not come off. This can be furnished in imitation leather or in good genuine leather.

Price, in imitation leather.....\$1.40

Price, in good genuine leather.....3.35

**No. 20-A-325.** A genuine leather cushion will be made to order to fit any chair seat upon receipt of a paper pattern.

Price, each.....\$3.35

TAKE A FEW MINUTES  
TIME AND GLANCE  
THROUGH THIS BOOK AND  
CONVINCE YOURSELF OF  
THE SAVING YOU WOULD  
MAKE, IN SENDING US  
AN ORDER.

## NOTICE ORDER BLANK.

On the last page of this catalogue you will find a conveniently arranged order blank, which can easily be detached. Kindly tear it out, and use when sending us an order. Additional blanks and self-addressed envelopes are gladly furnished you.



# Filing Cabinets, Index Cards, Typewriters, Etc.



**No. 20-A-107. Standard Make Vertical Files.** The illustration shows the letter size which contains 4 drawers made to accommodate papers up to 12½x10 inches.

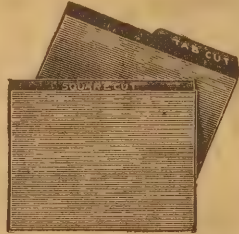
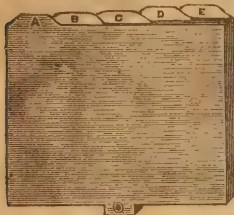
The legal or cap size contains the same number of drawers and is large enough for legal or other papers up to 10x15 inches in size.

The bill or invoice file contains 5 drawers for papers 8x10 inches or smaller. All cabinets are uniform in height and depth, measuring 52 inches high and 26½ inches front to back. The letter size is 15½ inches wide outside; the cap size is 18½ inches, and the bill size is 13½ inches wide outside. All drawers are 24 inches deep front to back, are varnished inside and out, and slide on rubber buffed extension slides, which prevent the spilling of contents when opened to full length. All drawers have follower blocks and rods for holding guides or indexes. The fronts of these rods are shown in illustration. Construction throughout is of the very best, all drawers being dove-tailed at both front and back.

These cabinets can be furnished with quartered white oak top and fronts and plain oak, 3 ply, sides and back; or of birch throughout. Oak files are in stock in both golden and weathered finishes; birch files have a rich mahogany finish. The drawer fronts are fitted with oxidized copper pulls and label holders. The following prices are for oak, either finish; or for birch, mahogany finish. Weights, 190 to 225 lbs.

Vertical letter size.....	\$11.75
Vertical cap size.....	12.50
Vertical bill size.....	13.50

When three or more cabinets are desired for use side by side the center ones need not have closed panel sides. These are termed open end sections and can be furnished in any size or finish at \$2.25 less than the price for the same file complete.



**No. 20-A-106. Guides and Folders for Letter Files and Card Cabinets.** Guides are of excellent quality Manila stock, die cut, absolutely true. Those for upright files have bottoms reinforced with metal eyelets, absolutely preventing tearing. Press board guides are of very heavy board, and are recommended very highly, being the most economical in the long run, especially for hard usage.

Number	Manila	Pressboard
In Set	Size	Price
Blank... per hundred.....	V Bill	\$0.65
Blank... per hundred.....	V Letter	.80
Blank... per hundred.....	Cap	1.10
Numbered		
as desired, per hundred.....	Bill	.90
" per hundred.....	Letter	1.00
" per hundred.....	Cap	1.35
Monthly.....12.....	Letter	.12
Monthly.....12.....	Cap	.25
Alphabetically.....25.....	Bill	.20
Alphabetically.....25.....	Letter	.25
Alphabetically.....25.....	Cap	.40
Daily.....31.....	Letter	.35
Daily.....31.....	Cap	.50

These can be furnished in either blue or buff, and are unperforated. Extra quality. Two weights, medium and heavy.

	Medium Weight	Heavy Weight
	3x5	4x6
Blank... per hundred	\$0.25	\$0.40
Weekly (7) per set	.03	.08
Monthly (12) per set	.07	.10
Daily (31) per set	.12	.20
States (57) per set	.25	.30
25 A-Z per set	.10	.13

All the above can be furnished in larger alphabetical sets. The following number per set: 40, 80, 120, 160, 240, 320 and 400, at the same ratio as the set of 25.

**No. 20-A-105.** The illustrations show two styles of folders. One in front, square cut, is the ordinary folder without tabs, and folder shown behind has tab. (No. 20-A-105½) is printed for number, name and address. These come half cut, the tab on the right hand side, and are die cut.

	Medium Weight	Heavy Weight
	Bill	Letter
Tabbed and printed.....	\$0.45	\$0.60
Square Cut.....	\$0.30	\$0.40



No. 1.



No. 2.



No. 3.



No. 4.



No. 5.

Unit No. 1 contains two vertical document files for papers 4½ inches wide and not over 10½ inches high. Unit No. 2 is a standard vertical letter drawer. Unit No. 3 contains 5 drawers 1 inch deep and of proper size to hold standard legal blanks, 9½x14½ inches. Unit No. 4 has two drawers for filing cancelled checks, etc., on edge, for checks 9½x3½ inches or smaller. Unit No. 5 contains 4 standard drawers for filing 3x5 cards.

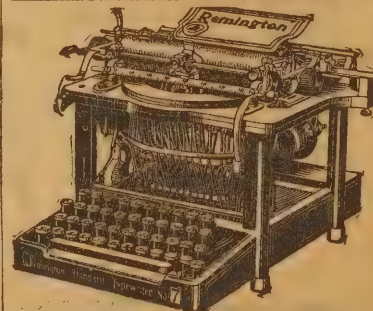
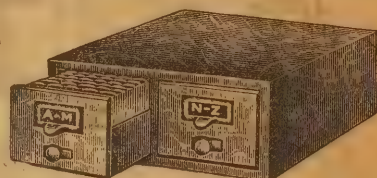
Fronts of all oak units are quartered oak, polished. They are fitted with oxidized copper hardware. The shell and all units can be furnished in golden oak, weathered oak, or birch mahogany finish.

Shell, without any fittings.....	\$6.00
Units No. 1, 3, 4 and 5, (15½ inches long) each.....	3.00
Unit No. 2, each.....	1.50

**Note:** All of these units are of standard make and will accommodate any standard supplies. Prices quoted include no supplies of any sort, and are for cabinets only. Supplies will be found priced elsewhere on this page. Units are valueless without the shell, being finished only in front.

**No. 20-A-115. Card Index Cabinets.** These cabinets are of standard make, quarter sawed golden oak, rubbed and polished finish. All drawers are equipped with follower blocks, rods, are full dove-tailed and are made for perforated cards. Fronts are fitted with oxidized copper combination holders. They are of standard depth and will accommodate any standard make of indexes or cards.

No. of Drawers	For of Cards	Weight	Price
1	3x5	10 lbs.	\$1.65
2	3x5	25 lbs.	2.40
3	3x5	35 lbs.	4.60
4	3x5	40 lbs.	6.50
6	4x6	12 lbs.	2.15
1	4x6	28 lbs.	2.80
2	4x6	45 lbs.	4.35
4	4x6	75 lbs.	7.75
1	5x8	15 lbs.	2.65
2	5x8	35 lbs.	3.70
4	5x8	60 lbs.	6.75



**Write for Prices on Guaranteed "Rebuilt" Typewriters.**

drawers measure 15½ inches front to back inside and 1 inch high. All cabinets are 20½ inches front to back outside. The widths range from 25 to 36 inches. Highly recommended by us.

No. of drawers	Inside length of drawers	Weight	Price
12	20½	125 lbs.	\$10.80
16	20½	150 lbs.	12.60
20	20½	165 lbs.	14.40
12	24½	165 lbs.	13.50
16	24½	195 lbs.	16.20
20	24½	210 lbs.	18.90
12	30½	175 lbs.	17.10
16	30½	215 lbs.	19.80
20	30½	240 lbs.	22.50

**No. 20-A-1400. Blueprint or electrotype cabinet, constructed of seasoned black ash, finished in a golden or weathered oak. Extra heavy drawer sides and bottoms, will not sag or loosen with the heaviest weight. Extension at back of drawers to prevent falling or spilling when opened to full extent. All**





# 1,000 MISCELLANEOUS CARPET SIZE RUGS

## At One-Third Their Cost to Manufacture

On this page we quote nothing but extreme bargains. In every case we suggest that you make first, second and third choice, if possible, as the bargains quoted here are subject to prior sale. These goods were procured by us at an auction sale of the entire surplus stock of three of the largest and most reputable floor covering mills in the United States.



**No. 23-A-600.** A desirable and handsome new effect in an extra good quality of Brussels, with a very rich soft Oriental red ground and the medallion and border colorings in greens, tans, ivory and all the soft Oriental colorings. These goods were made to sell at fully three times our prices and you can make no mistake in placing your order on this special bargain. We have but a limited quantity in this lot and we suggest that you make first, second and third choice if possible, and we will fill your order in the best possible manner.

Size, 8'3"x10'6".....	\$7.65
9'x12'.....	9.75
11'3"x12'.....	12.95



**No. 23-A-602.** All of the new Oriental effects with a small, neat Persian design in colorings of brown, green, red and ivory. A rug specially suitable for dining room, can also be used for an office rug, or in any space where a neat small effect is required. This is made of a special heavy quality Brussels entirely seamless and is a rug that we recommend as being first class in every respect. We are in a position to offer you this exceptional quality at just one-third their regular value.

Size, 6'x9'.....	\$6.25
8'3"x10'6".....	9.75
9'x12'.....	13.75
10'6"x13'6".....	19.95



**No. 23-A-601.** An exceptional quality of seamless Brussels made of the finest selected wool yarn, guaranteed fast color. This rug is a perfect picture in design and coloring, being arranged in a rich combination of browns, greens, reds and tans. This rug is entirely seamless and is made of extra heavy quality of Brussels and is one that we positively guarantee for long and satisfactory service.

Size, 6'x9'.....	\$6.25
8'3"x10'6".....	9.75
9'x12'.....	13.75
10'6"x13'6".....	19.95



**No. 23-A-603.** This illustration shows all the new handsome designs in a combination of colorings ranging in the soft shades of green, brown, tan and blue. This handsome rug is made of an extra quality of plush velvet, one size only and is without any exception the best of our many bargains. Don't hesitate to place your order at once, and if possible give second or third choice. We have but a limited quantity of this handsome pattern, but can supply the same extra quality in a number of other handsome color combinations and designs, including both floral, Oriental and Persian effects.

Size, 9'x12'. Price.....	\$13.75
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# Best Quality Wilton Velvet and A X MINSTER RUGS

On this page is a selection of the greatest values in fine floor coverings ever offered by any one. These special miscellaneous rug bargains are entirely beyond comparison. In ordering always give second and third choice, as we have but a limited quantity of these goods, and in every case we guarantee absolute satisfaction. Remember these are not the ordinary goods that are offered for sale by the average dealer, but of the highest class and perfect in every way.



**No. 23-A-604.** This and many other handsome Oriental and floral effects of an extra heavy quality of Wilton Velvet; made in three useful sizes from which you can make a selection to fit almost any room. The colorings in this beautiful rug are a rich combination of the soft Oriental effects in reds, greens, browns and tans. We also have a number of handsome floral patterns in these sizes, any one of which would furnish a beautiful room.

Size, 9'x12'	\$14.95
10'6"x12'	18.85
11'3"x12'	21.25



**No. 23-A-606.** Another very handsome floral effect in a heavy quality of Wilton Velvet. This is a very handsome combination of Oriental colorings in soft blues, browns, greens and tan. The predominating color is a rich Oriental green mixed with a golden brown. This is absolutely the best grade of Wilton Velvet and is guaranteed to give perfect satisfaction. Remember we must have second and third choice on these special bargains as there is but a limited quantity of each. We assure you however, that you will receive a first class rug in every respect and one that will please you in coloring, patterns, etc.

Size, 9'x12'	\$16.25
11'3"x12'	22.50



**No. 23-A-605.** This lot comprises 180 of the finest Axminster rugs. These are known to be the most suitable rugs for parlor and general use. Each rug in this lot is worth fully double our price and are all new and perfect in every respect. The illustration above represents one of our very handsomest floral designs. The predominating colors in this handsome rug are a medium light shade of green in the back ground, and the design brought out in shades of brown, pink, rose and a lighter green. The border colorings are also in the lighter pastel shades.

Size, 9'x12'	\$16.35
10'6"x12'	22.85



**No. 23-A-607.** This beautiful Oriental pattern is made in two sizes only and is of an extra grade of Axminster in the newest and choicest Oriental pattern. This is a Camel's hair effect, with a medium light shade of tan in the color work. The medallion and border colors being brought out in shades of blue, red and ivory, making a very handsome striking color combination. We can also furnish a number of other patterns in darker Oriental effects, also in floral effects. When ordering, be sure and give second and third choice.

Size, 8'3"x10'6"	\$13.75
9'x12'	16.95



# Seamless Wilton Velvet and Fine Body Brussels Rugs

If you want the highest class floor coverings obtainable at one-half their regular prices, don't fail to give us your order for one of these bargains on this page. These rugs came to us through an unusual bankrupt proceeding and we are in a position to furnish these handsome extra quality goods at exactly one-half their regular value. When ordering be sure and give second and third choice.



**No. 23-A-608.** This is one of our many bargains in Seamless Wilton Velvet Rugs of the finest quality. The colorings are soft tan, green, rose and ivory. Remember these beautiful rugs are made entirely in one piece and will stand any amount of hard service. The dyes used in this class of goods are absolutely the best and the colors are strictly fast. We can also furnish you a number of other floral and Oriental effects in any color combination you desire.

Size, 9'x12'.....\$17.75



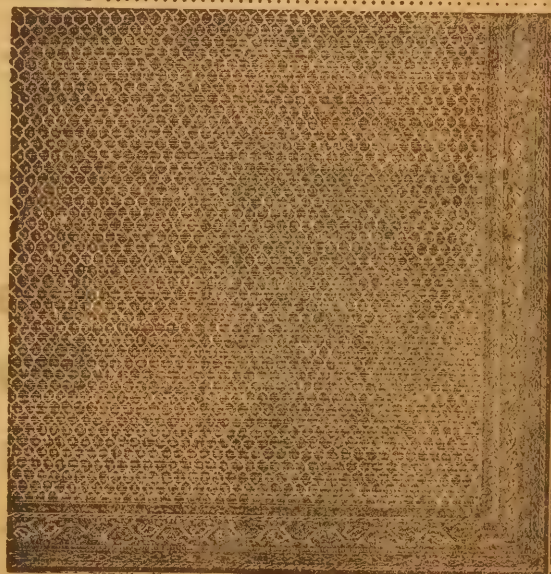
**No. 23-A-609.** The famous long wearing Body Brussels Rugs. These rugs are known the world over for their wonderful durability and handsome color effects. They are especially suitable for library, dining rooms, offices, etc. The illustration shows one of our many handsome Persian effects. The ground work of this rug is a medium shade of brown mixed with harmonizing coloring of green, ivory and rose. Every rug is guaranteed perfect in every way. When ordering, be sure and give second and third choice, and we will guarantee a satisfactory shipment.

Size 6'x9'.....	\$13.75
8'3"x10'6".....	18.50
9'x12'.....	21.35
10'6"x12'.....	29.35
11'3"x12'.....	33.50



**No. 23-A-610.** Another of our wonderful bargains in the finest grade of Seamless Wilton Velvet Rugs. This beautiful Oriental pattern is made with a soft rich green ground, with shades of red, brown, tan and ivory. We can also furnish you a beautiful rug in small Persian effect similar to Nos. 23-A-609 and 23-A-611. When ordering, be sure and give second and third choice in every case and describe as near as possible the colors you prefer as our stock of these is varied in design and coloring, and we can suit every taste.

Size, 9'x12'.....\$17.75



**No. 23-A-611.** Another of our famous long wearing Body Brussels Rugs in a new all over Persian effect. This rug can be furnished in either a green ground with small brown figures or in a soft rich Oriental red with tan colors in the design. We can also furnish many other patterns in medallions as well as the Persian patterns and suggest that you state your ideas when ordering, and we will make a good selection.

Size, 6'x9'.....	\$13.75
8'3"x10'6".....	18.50
9'x12'.....	21.35
10'6"x12'.....	29.35
11'3"x12'.....	33.50



## Great New York Auction Purchase of

**HIGH CLASS CARPETING**

These auction goods are the accumulated odd rolls and short lengths of the world's greatest carpet mill. High class wool surface Brussels carpet in lengths that can be matched and made to fit any room at exactly one-half their regular value. We have but a limited number of yards of each pattern and we would suggest that you give second and third choice with your selection. The qualities offered in these items are beyond comparison.

**Pattern No. 1.** An attractive design in a floral effect. The colorings are a deep brown, green, red and pink in a medallion design.

**Pattern No. 2.** A floral scroll design. A very rich deep green ground, with a pattern in tan and green and lighter shades of green.

**Pattern No. 3.** A floral design in red ground, with green, rose and ivory tints.

**Pattern No. 4.** Oriental and Persian design with predominating colors of brown and the design in red, green and ivory tints.

**Pattern No. 5.** Oriental design. Green ground. Medium size pattern. Colors red, tan and ivory.

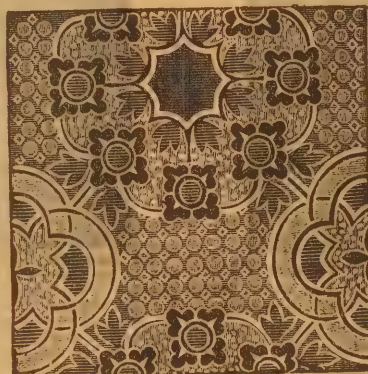
**Pattern No. 6.** Small Persian pattern in either two-tone green or two-tone red ground. A very handsome carpet for a large room, halls, etc. Remember that all of these carpets are in odd rolls, some patterns of which we can furnish two or three hundred yards in length, and some from five to fifteen yards. When ordering give us the exact size of your room, so we may cut to the best advantage.

Never before in the history of floor coverings have such values been offered. There are goods in this lot worth up to \$1.35 per yard. Place your order early and get the best values. Be sure and give us an idea of the coloring, design, etc., and we can fill your order in a very satisfactory manner. When sewing is necessary add 3 cents per yard. Carpet comes 27 inches wide.

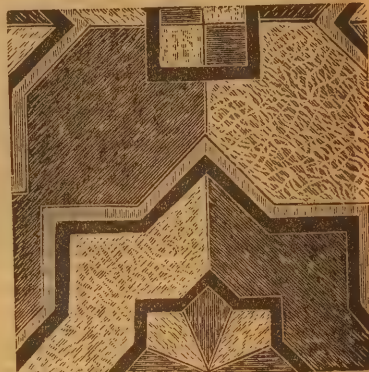
Price per yard..... **55c**



**No. 23-A-612.** An extra quality printed linoleum with a medium sized pattern in colors of brown, light green and white. This grade of goods we sell ordinarily at 48 cents per square yard. These remnant strips 6 feet wide, **28c**  
Price per square yard.....



**No. 23-A-613.** Another choice pattern which we are able to furnish in lengths that will fit almost any room in a medium sized pattern, with colors of light green, white, red and brown. This comes 6 feet wide and is perfect in every way. Our regular price per square yard, 48 cents. These remnant lengths, **28c**  
Price per square yard .....



**No. 23-A-614.** This new and desirable parquet floral effect in the heaviest quality print linoleum comes in shades of brown to imitate the standard oak finishes. This pattern is especially suitable for kitchen, dining room, etc., and we are in a position to furnish lengths running from 2 to 12 yards each. Our regular price on this handsome pattern 57 cents.

When ordering be sure and give size of room, also if possible give second and third choice. 6 feet wide. **32c**  
Price per square yard .....



**No. 23-A-615.** Imported inlaid granite linoleum in colorings of green, blue and brown. This is an extra heavy quality of goods and will wear for a life time; is especially suitable for stores, offices, etc. When ordering be sure and state the color wanted, also give full size of room so we can cut to best advantage. Our regular price on this extra quality imported inlaid granite linoleum, 92 cents per square yard. In remnant lots full 6 feet wide, **53c**  
Price per square yard

**No. 23-A-616.**

## Linoleum Remnants

The goods we offer here are perfect in every way but they come in short lengths. We can supply enough of any pattern illustrated on this page to cover a large room and we will supply same in as few pieces as we can. When ordering be sure and give size of your room so that we can cut the pieces advantageously. The lengths come from two to ten yards long and can in every case be made to match and fit almost any room. Remember these goods are new and perfect in every respect and are the accumulation of the cutting of thousands of rolls of high class linoleum. When ordering, be sure and give second and third choice, also size of room you wish to cover.



**No. 23-A-617.** Genuine inlaid linoleums in new and desirable tile effects. These goods are known the world over for their wonderful wearing qualities and handsome colors. We are in a position to supply a limited number of yards in this and other patterns in blocks of blue and white, brown and white, brown and green, etc. Our regular price on these goods is \$1.45 per square yard. This item can be furnished in short lengths, running from 5 to 12 yards each, full 6 feet wide. **69c**  
Price per square yard.....







# SE WRECKING CO.-

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AT	TOTAL
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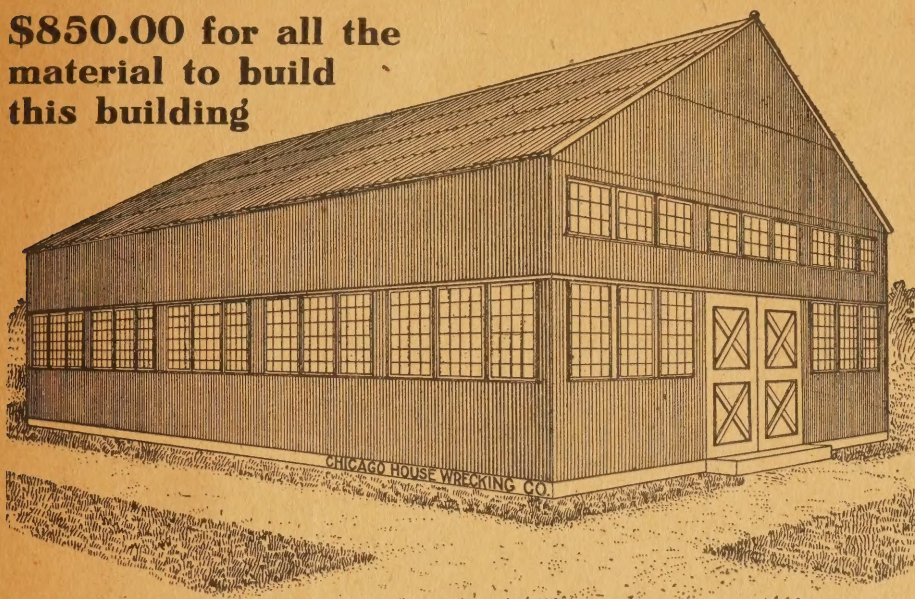


CHICAGO HOUSE WRECKING CO., 35th & IRON STREETS, CHICAGO.

# MODERN FIREPROOF STEEL BUILDINGS

EXCEPTIONALLY GOOD OFFERS IN STEEL BUILDINGS OF ALL SIZES FRAMED READY TO ERECT

**\$850.00 for all the material to build this building**



Exterior view of our Fireproof Steel Buildings, 30 ft. wide by 60 ft. Long; 16 ft. High at Eaves.

We are making special prices on Modern Fireproof Steel Buildings suitable for factories, barns, warehouses, machine shops, foundries, storage, sheds, shops, etc.

The above illustrations are of the most popular Modern Fireproof Steel Buildings, constructed entirely of steel and practically indestructible.

We are making a special price of \$850.00 for material to build this Fireproof Steel Building.

We furnish, ready to set up, Steel Columns, Girths, Lateral and Sway Braces, Roof Trusses, Purlins, Anchor Bolts, Rivets and Bolts for setting up, Corrugated Galvanized Iron for Walls and Roof, Doors and Windows, Hinges, etc., to complete this building according to our Blue Print Plans, Specifications and Bill of Material.

Plans, Specifications and Bill of Material furnished FREE with material. The Plans show exactly where each item in the bill of material is used in the building, each piece of steel being numbered in the Material List and correspondingly numbered on the Plans, greatly simplifying the erection of the building and at a great saving in the cost of labor.

We have many other designs of steel buildings on which we can save you from 30 to 50 per cent. If you contemplate erecting a steel building or using any steel for any other purpose, it would pay you to get our prices before purchasing. Our steel buildings are designed by expert structural engineers, who can furnish you with any information that you would desire to know in regard to anything in the structural steel line.

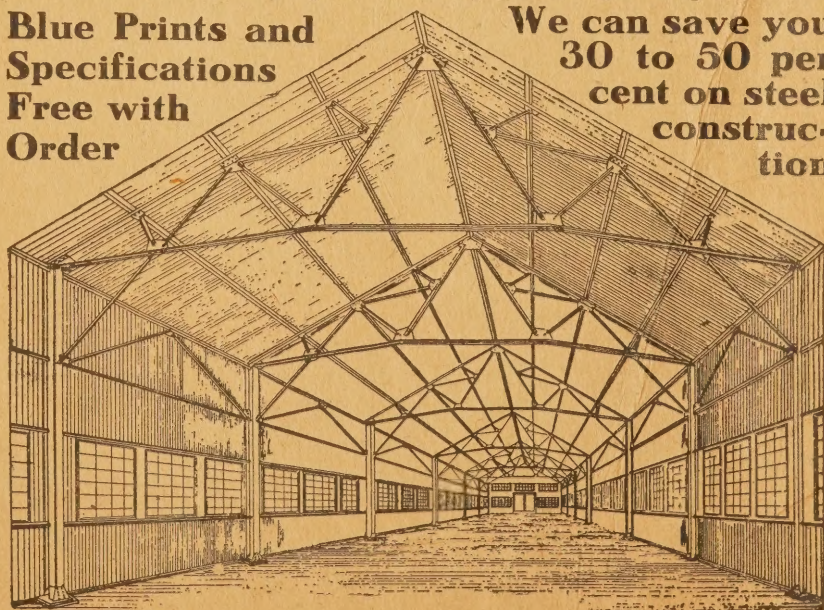
**Blue Prints and Specifications Free with Order**

**We can save you 30 to 50 per cent on steel construction**

## STRUCTURAL STEEL WORK

Finished steel work for buildings, consisting of I beams, girders, angles, columns, roof trusses, etc., fitted complete and ready for erection. Over 10,000 tons of brand new and selected second-hand steel in stock for immediate delivery.

We are prepared to make prompt shipment of any of the Fireproof Steel Buildings purchased from us.



Interior View of Same Building.



# OUR GREAT LUMBER DEPARTMENT

CATALOG 162

MILLIONS OF FEET  
OF BRAND NEW  
LUMBER.

OUR PRICES SAVE  
YOU 35 to 50  
PER CENT.



Yard scene showing  
dry sheds in distance.



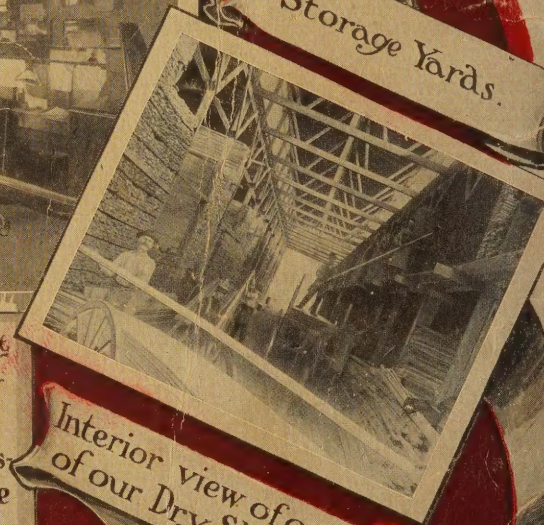
Storage Yards.



In our Lumber Dept.  
Office we employ  
a vast staff of  
estimators & Sales-  
men. This picture  
shows just a small  
portion of the office.



An alley way in our  
mammoth lumber yards.



Interior view of one  
of our Dry Sheds.

EVERY PIECE OF STOCK IS  
GUARANTEED BRAND NEW.

NO WRECKED OR SECOND  
HAND LUMBER FOR SALE.

# CHICAGO HOUSE WRECKING CO

35<sup>th</sup> and IRON STS

CHICAGO